



# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 08.01.2016

Numéro de version 25

Révision: 08.01.2016

**Nom du produit: ACETONE**

- Indications complémentaires:
- Indications particulières concernant les dangers pour l'homme et l'environnement:

**· 2.3 Autres dangers**

- Résultats des évaluations PBT et vPvB
- PBT:
- vPvB:

(suite de la page 1)

P305+P351+P338 EN CAS DE CONTACT AVEC LES YEUX: rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.

P304+P340 EN CAS D'INHALATION: transporter la personne à l'extérieur et la maintenir dans une position où elle peut confortablement respirer.

P337+P313 Si l'irritation oculaire persiste: consulter un médecin.

P403+P233 Stocker dans un endroit bien ventilé. Maintenir le récipient fermé de manière étanche.

P501 Éliminer le contenu/récipient conformément à la réglementation locale/régionale/nationale/internationale.

EUH066 L'exposition répétée peut provoquer dessèchement ou gerçures de la peau.

Le produit ne possède pas, ou n'engendre pas en cours d'utilisation, d'autres propriétés dangereuses qui ne feraient pas l'objet d'une classification selon le règlement (CE) n°1272/2008.

Le produit ne possède pas de propriétés PBT telles que définies à l'annexe XIII du règlement (CE) n°1907/2006.

Le produit ne possède pas de propriétés vPvB telles que définies à l'annexe XIII du règlement (CE) n°1907/2006.

### RUBRIQUE 3: Composition/informations sur les composants

**· 3.1 Substances**

- No CAS Désignation 67-64-1 ACETONE
- Code(s) d'identification
- Numéro CE: 200-662-2
- Numéro index: 606-001-00-8
- SVHC néant

### RUBRIQUE 4: Premiers secours

**· 4.1 Description des premiers secours**

- Remarques générales: Enlever immédiatement les vêtements contaminés par le produit. Amener les sujets à l'air frais. Contacter le personnel secouriste et le service Hygiène Sécurité Environnement. En cas d'inconscience, coucher et transporter la personne en position latérale stable. Amener les sujets à l'air frais et les garder au calme.
- Après inhalation: Laver immédiatement à l'eau. Rincer les yeux, pendant 15 minutes, sous l'eau courante en écartant bien les paupières et consulter un ophtalmologiste.
- Après contact avec la peau: Vérifier que la victime ne porte pas de verres de contact, les retirer.
- Après contact avec les yeux: Tourner sur le côté une personne couchée sur le dos, qui est en train de vomir. Ne pas faire vomir sauf indication contraire du corps médical. Demander immédiatement conseil à un médecin.
- Après ingestion: Tourdissement

**· 4.2 Principaux symptômes et effets, aigus et différés****· 4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires**

Pas de traitement spécifique requis.

### RUBRIQUE 5: Mesures de lutte contre l'incendie

**· 5.1 Moyens d'extinction**

- Moyens d'extinction: Adapter les mesures d'extinction d'incendie à l'environnement. CO2, poudre d'extinction ou eau pulvérisée. Combattre les foyers importants avec de l'eau pulvérisée ou de la mousse résistante à l'alcool.

**· 5.2 Dangers particuliers résultant de la substance ou du mélange**

Monoxyde de carbone (CO)  
Dioxyde de carbone  
Des vapeurs peuvent former avec l'air un mélange explosif.  
Les eaux de ruissellement vers les égouts peut provoquer un incendie ou une explosion.

**· 5.3 Conseils aux pompiers****· Équipement spécial de sécurité:**

Porter un appareil de respiration indépendant de l'air ambiant.  
Ne pas inhaler les gaz d'explosion et les gaz d'incendie.  
Refroidir les récipients en danger en pulvérisant de l'eau.

- Autres indications

### RUBRIQUE 6: Mesures à prendre en cas de dispersion accidentelle

**· 6.1 Précautions individuelles, équipement de protection et procédures d'urgence**

Porter un appareil de protection respiratoire.  
Porter un équipement de sécurité. Eloigner les personnes non protégées.  
Eviter le contact avec la peau et les yeux

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### · 6.2 Précautions pour la protection de l'environnement:

NE PAS TOUCHER ni marcher dans le produit répandu.

Eviter de rejeter à l'égout, les fosses et les caves.

Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.

### · 6.3 Méthodes et matériel de confinement et de nettoyage:

Recueillir les liquides à l'aide d'un produit absorbant (sable, kieselguhr, neutralisant, liant universel, sciure).

Assurer une aération suffisante.

Utiliser du matériel antidéflagrant

### · 6.4 Référence à d'autres rubriques

Afin d'obtenir des informations pour une manipulation sûre, consulter le chapitre 7.

Afin d'obtenir des informations sur les équipements de protection personnels, consulter le chapitre 8.

Afin d'obtenir des informations sur l'élimination, consulter le chapitre 13.

## RUBRIQUE 7: Manipulation et stockage

### · 7.1 Précautions à prendre pour une manipulation sans danger

Veiller à une bonne ventilation/aspiration du poste de travail.

Porter les équipements de protection requis avant toute manipulation (voir chapitre 8)

Si possible, utiliser un système de transfert clos.

### · Préventions des incendies et des explosions:

Tenir à l'abri des sources d'inflammation - ne pas fumer.

Utiliser des appareils et armatures antidéflagrantes ainsi que des outils ne produisant pas d'étincelle.

Des vapeurs peuvent former avec l'air un mélange explosif.

Les équipements appropriés pour faire face aux incendies, les déversements et les fuites doivent être facilement accessibles.

Mise à la terre des équipements

### · 7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités

#### · Stockage:

#### · Exigences concernant les lieux et conteneurs de stockage:

Prévoir des sols étanches et résistant aux solvants.

Ne conserver que dans le fût d'origine.

N'utiliser que des emballages spécialement agréés pour la matière/le produit.

Les réservoirs de stockage doivent avoir une liaison équipotentielle électrique et une mise à la terre.

Ne pas stocker avec les aliments.

#### · Indications concernant le stockage commun:

#### · Autres indications sur les conditions de stockage:

Stocker au frais et au sec dans des fûts bien fermés.

Protéger de la forte chaleur et du rayonnement direct du soleil.

### · 7.3 Utilisation(s) finale(s) particulière(s)

Pas d'autres informations importantes disponibles.

## RUBRIQUE 8: Contrôles de l'exposition/protection individuelle

### · Indications complémentaires pour l'agencement des installations techniques:

Sans autre indication, voir point 7.

### · 8.1 Paramètres de contrôle

#### · Composants présentant des valeurs-seuil à surveiller par poste de travail:

Les autres substances ne présentent pas de valeurs limites d'exposition professionnelle.

#### ACETONE

|                 |   |
|-----------------|---|
| VME (France)    | Valeur momentanée: 2420 mg/m <sup>3</sup> , 1000 ppm<br>Valeur à long terme: 1210 mg/m <sup>3</sup> , 500 ppm       |
| PEL (U.S.A.)    | 2400 mg/m <sup>3</sup> , 1000 ppm   |
| REL (U.S.A.)    | 590 mg/m <sup>3</sup> , 250 ppm   |
| TLV (U.S.A.)    | Valeur momentanée: 1782 mg/m <sup>3</sup> , 750 ppm<br>Valeur à long terme: 1188 mg/m <sup>3</sup> , 500 ppm<br>BEI |
| AGW (Allemagne) | 1200 mg/m <sup>3</sup> , 500 ppm<br>2(I);DFG  |

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## · DNEL

## DNEL (-)

Utilisation Finale: Travailleurs  
Voies d'exposition: Inhalation  
Effets potentiels sur la santé: Effets aigus, Effets locaux  
Durée exposition: 1h  
Valeur: 2420 mg/m3 - 1000ppm

Utilisation finale: Travailleurs  
Voies d'exposition: Contact avec la peau  
Effets potentiels sur la santé: Effets chroniques  
Durée d'exposition: 8h  
Valeur: 186 mg/kg

Utilisation finale: Travailleurs  
Voies d'exposition: Inhalation  
Effets potentiels sur la santé: Effets chroniques  
Valeur 1210 mg/m3 - 500ppm

Utilisation finale: Consommateurs  
Voies d'exposition: Contact avec la peau  
Effets potentiels sur la santé: Effets chroniques  
Durée exposition: 24h  
Valeur: 62 mg/kg

Utilisation finale: Consommateurs  
Voies d'exposition: Inhalation  
Effets potentiels sur la santé: Effets chroniques  
Durée exposition: 24h  
Valeur: 200 mg/m3

Utilisation finale: Consommateurs  
Voies d'exposition: Ingestion  
Effets potentiels sur la santé: Effets chroniques  
Valeur: 62 mg/kg

## · PNEC

## PNEC (-)

Eau douce: 10.6mg/l  
Eau de mer: 1.06 mg/l  
Sédiment d'eau douce: 30.4 mg/kg  
Sédiment marin: 3.04 mg/kg  
Sol: 29.5 mg/kg

## · Remarques supplémentaires:

Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.

· **8.2 Contrôles de l'exposition**

## · Equipement de protection individuel:

## · Mesures générales de protection et d'hygiène:

Respecter les mesures de sécurité usuelles pour l'utilisation de produits chimiques.  
Tenir à l'écart des produits alimentaires, des boissons et de la nourriture pour animaux.  
Retirer immédiatement les vêtements souillés ou humectés.  
Se laver les mains avant les pauses et en fin de travail.  
Ne pas inhaler les gaz, les vapeurs et les aérosols.  
Eviter tout contact avec les yeux et avec la peau.  
Favoriser la mise en place de mesures de protection collectives par rapport aux mesures de protection individuelle.

## · Protection respiratoire:

Utiliser un appareil de protection respiratoire si la ventilation est insuffisante.  
En cas de risque d'exposition au delà des valeurs moyennes d'exposition, port obligatoire d'un équipement individuel de protection respiratoire.  
Utiliser des appareils conformes à une norme approuvée.

## · Filtre recommandé pour une utilisation momentanée:

Attention! Les filtres ont une durée d'utilisation limitée.

## · Protection des mains:



Gants de protection

## Norme EN 374

Choix du matériau des gants en fonction des temps de pénétration, du taux de perméabilité et de la dégradation. Il convient de tenir compte du fait que la résistance d'un gant est influencée par des facteurs tels que la température d'utilisation du produit, sa concentration, l'épaisseur du gant, le temps d'immersion. Préserver du risque chimique demande de connaître également l'ensemble des autres paramètres propres au poste de travail (risque mécanique, thermique, dextérité requise, manipulation de pièces abrasives...).

Se référer aux informations sur les résistances chimiques du fabricant de chaque gant et mener un essai préalable pour déterminer si le gant est adapté aux conditions d'utilisations réelles.

## · Matériau des gants

## Butylcaoutchouc

Le choix de gants appropriés ne dépend pas seulement du matériau, mais également d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre.  
Épaisseur du matériau recommandée:  $\geq 0,5$

## · Temps de pénétration du matériau des gants

Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter. Il faut noter que la durabilité des gants de protection chimique peut être notablement plus courte que le temps de pénétration mesuré par la norme EN374 en raison des nombreux effets extérieurs spécifiques à un poste de travail.

Valeur pour la perméabilité: taux  $\geq 240$ min

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· Protection des yeux:



Lunettes de protection hermétiques

· Protection du corps:

Vêtements de travail protecteurs

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### RUBRIQUE 9: Propriétés physiques et chimiques

#### · 9.1 Informations sur les propriétés physiques et chimiques essentielles

· Indications générales.

· Aspect:

Forme:

Liquide

Couleur:

Incolore

· Odeur:

Caractéristique

· Seuil olfactif:

Information non disponible

· valeur du pH:

Non applicable.

· Changement d'état

Point de fusion:

94,7 °C

Point d'ébullition:

55,8-56,6 °C

· Point d'éclair:

-17 °C

· Température d'auto-inflammation:

465 °C

· Température de décomposition:

Non déterminé.

· Auto-inflammation:

Non déterminé.

· Danger d'explosion:

Le produit n'est pas explosif; toutefois, des mélanges explosifs vapeur-air peuvent se former.

· Limites d'explosion:

Inférieure:

2,5 Vol %

Supérieure:

13 Vol %

· Pression de vapeur à 20 °C:

240 hPa

· Densité à 20 °C:

0,79 g/cm³

· Solubilité dans/miscibilité avec l'eau:

Soluble

· Coefficient de partage (n-octanol/eau) à 20 °C:

-0.24 log POW

· Viscosité:

Dynamique à 20 °C:

0,32 mPas

Cinématique:

Non déterminé.

#### · 9.2 Autres informations

Pas d'autres informations importantes disponibles.

### RUBRIQUE 10: Stabilité et réactivité

#### · 10.1 Réactivité

Pas d'autres informations importantes disponibles.

#### · 10.2 Stabilité chimique

· Décomposition thermique/conditions à éviter:

Pas de décomposition en cas d'usage conforme.

#### · 10.3 Possibilité de réactions dangereuses

Aucune réaction dangereuse connue.

#### · 10.4 Conditions à éviter

Pas d'autres informations importantes disponibles.

#### · 10.5 Matières incompatibles:

Les bases fortes

Peroxydes (H<sub>2</sub>O<sub>2</sub>, Na<sub>2</sub>O<sub>2</sub>, K<sub>2</sub>O)Acides oxydants et sels (HNO<sub>3</sub>, MnO<sub>4</sub>K...)Oxydes métalliques (CrO<sub>3</sub>, HgO)

#### · 10.6 Produits de décomposition dangereux:

Monoxyde de carbone

La combustion génère des oxydes de carbone

### RUBRIQUE 11: Informations toxicologiques

#### · 11.1 Informations sur les effets toxicologiques

· Toxicité aiguë:

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

· Valeurs LD/LC50 déterminantes pour la classification:

|          |          |                   |
|----------|----------|-------------------|
| Oral     | LD50     | 5800 mg/kg (rat)  |
| Dermique | LD50     | 20000 mg/kg (rbt) |
|          | NOEC 48h | 3400 MG/LITRE (5) |

· Par voie orale:

Les données disponibles indiquent que les critères de classification ne sont pas remplis

· Par voie cutanée:

Les données disponibles indiquent que les critères de classification ne sont pas remplis

· Par inhalation:

Les données disponibles indiquent que les critères de classification ne sont pas remplis

#### · Effet primaire d'irritation:

· Corrosion cutanée/irritation cutanée

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

· Lésions oculaires graves/irritation oculaire

Provoque une sévère irritation des yeux.

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- **Sensibilisation:** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Effets CMR (cancérogène, mutagène et toxique pour la reproduction):**
- Mutagénicité sur les cellules germinales Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- Cancérogénicité Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- Toxicité pour la reproduction Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité spécifique pour certains organes cibles - exposition unique** Peut provoquer somnolence ou vertiges.
- **Toxicité spécifique pour certains organes cibles - exposition répétée** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Danger par aspiration** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

## RUBRIQUE 12: Informations écologiques

### · 12.1 Toxicité

#### · Toxicité aquatique:

|                   |   |
|-------------------|---|
| CE50 (écologique) | >100 mg/l, 96h mg/l (ALGUES) (Pseudokirchneriella subcapitata, Essai en statique)<br>(valeur de la littérature) |
|                   | >100 mg/l, 48h mg/l (DAPHNIES) (Daphnia magna, Essai en statique)<br>(valeur de la littérature)                 |
| LC50 (écologique) | >100 mg/l, 96h mg/l (POISSONS) (Salmo gairdneri, essai en statique)<br>(valeur de la littérature)               |

### · 12.2 Persistance et dégradabilité

Facilement biodégradable.

### · 12.3 Potentiel de bioaccumulation

Pas d'autres informations importantes disponibles.

Le produit s'évapore rapidement s'il est déversé sur le sol

Pas d'autres informations importantes disponibles.

### · 12.4 Mobilité dans le sol

#### · Autres indications écologiques:

#### · Valeur DCO:

Information non disponible

#### · Valeur DBO5:

Information non disponible

#### · Indications générales:

Ne pas laisser pénétrer dans la nappe phréatique, les eaux ou les canalisations.

### · 12.5 Résultats des évaluations PBT et VPVB

#### · PBT:

Le produit ne possède pas de propriétés PBT telles que définies à l'annexe XIII du règlement (CE) n°1907/2006.

#### · vPvB:

Le produit ne possède pas de propriétés vPvB telles que définies à l'annexe XIII du règlement (CE) n°1907/2006.

### · 12.6 Autres effets néfastes

Pas d'autres informations importantes disponibles.

## RUBRIQUE 13: Considérations relatives à l'élimination

### · 13.1 Méthodes de traitement des déchets

#### · Recommandation:

Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.

Pour la manipulation des déchets, prendre les précautions définies aux chapitres 7 et 8.

Réutilisation ou recyclage lorsque c'est possible, sinon incinération selon les méthodes recommandées d'élimination.

#### · Emballages non nettoyés:

#### · Recommandation:

Les emballages ne pouvant pas être nettoyés doivent être évacués de la même manière que le produit.

Ne pas découper, perforer ou souder sur ou à proximité des emballages vides.

Les emballages vides peuvent contenir des résidus dangereux.

Ne pas retirer l'étiquette de l'emballage tant qu'il n'est pas nettoyé.

Ne pas traiter l'emballage vide comme un déchet ménager.

Ne pas incinérer un emballage fermé.

#### · Produit de nettoyage recommandé:

Eau, éventuellement avec des produits de nettoyage

## RUBRIQUE 14: Informations relatives au transport

### · 14.1 Numéro ONU

#### · ADR, IMDG, IATA

UN1090

### · 14.2 Désignation officielle de transport de l'ONU

#### · ADR

1090 ACÉTONE

#### · IMDG

ACETONE

#### · IATA

Acetone

### · 14.3 Classe(s) de danger pour le transport

#### · ADR



#### · Classe

3 (F+) Liquides inflammables.

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|  |   |
|--|---|
| · Étiquette  | 3   |
| · IMDG, IATA   |   |
|                     |   |
| · Class  | 3 Liquides inflammables.  |
| · Label  | 3   |
| · <b>14.4 Groupe d'emballage</b>   |   |
| · ADR, IMDG, IATA  | II  |
| · <b>14.5 Dangers pour l'environnement:</b>  | Non applicable.   |
| · <b>14.6 Précautions particulières à prendre par l'utilisateur</b>                                  | Attention: Liquides inflammables.   |
| · Indice Kemler:   | 33  |
| · No EMS:  | F-E,S-D   |
| · <b>14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC</b> | Non applicable.   |
| · Indications complémentaires de transport:  |   |
| · ADR  |   |
| · Quantités limitées (LQ)  | 1L  |
| · Quantités exceptées (EQ)   | Code: E2<br>Quantité maximale nette par emballage intérieur: 30 ml<br>Quantité maximale nette par emballage extérieur: 500 ml |
| · Catégorie de transport   | 2   |
| · Code de restriction en tunnels   | D/E   |
| · IMDG   |   |
| · Limited quantities (LQ)  | 1L  |
| · Excepted quantities (EQ)   | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml               |
| · "Règlement type" de l'ONU:   | UN 1090 ACÉTONE, 3, II  |

### RUBRIQUE 15: Informations relatives à la réglementation

#### · 15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement

- |  |                           |
|--|---------------------------|
| · TSCA (Toxic Substances Control Act):                       | la substance est comprise |
| · Philippines Inventory of Chemicals and Chemical Substances | la substance est comprise |
| · Chinese Chemical Inventory of Existing Chemical Substances | la substance est comprise |
| · Australian Inventory of Chemical Substances                | la substance est comprise |
| · Canadian Domestic Substances List (DSL)                    | la substance est comprise |

#### · Korean Existing Chemical Inventory

ACETONE

KE-29367

#### · Etiquetage selon le règlement (CE) n° 1272/2008

voir chapitre 2

#### · Indications sur les restrictions de travail:

Respecter les réglementations nationales applicables (ICPE, Code du travail, Maladies professionnelles...)

#### · Substances extrêmement préoccupantes (SVHC) selon REACH, article 57

Néant

#### · 15.2 Évaluation de la sécurité chimique:

Une évaluation de la sécurité chimique a été réalisée.

### RUBRIQUE 16: Autres informations

Ces informations ne dispensent pas l'utilisateur de contrôler le produit et n'engagent en aucun cas notre responsabilité quant à l'utilisation pour laquelle il le destine.

Ces indications sont fondées sur l'état actuel de nos connaissances, mais ne constituent pas une garantie quant aux propriétés du produit et ne donnent pas lieu à un rapport juridique contractuel.

Pour la France, en cas d'intoxication, appelez le Centre Antipoison (de préférence de votre région) ou le SAMU (15)

Angers: 02 41 48 21 21 - Bordeaux: 05 56 96 40 80

Lille: 0 825 812 822 - Lyon: 04 72 11 69 11

Marseille: 04 91 75 25 25 - Nancy: 03 83 32 36 36

Paris: 01 40 05 48 48 - Rennes: 02 99 59 22 22

Strasbourg: 03 88 37 37 37 - Toulouse: 05 61 77 74 47

#### · Domaines d'application selon la directive 98/8/CE - Règlement CE 528/2012.

Non concerné

#### · Acronymes et abréviations:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

ICAO: International Civil Aviation Organisation

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ADR: Accord européen sur le transport des marchandises dangereuses par Route

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· \* Données modifiées par rapport à la version précédente

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**Fiche de données de sécurité****selon 1907/2006/CE, Article 31**

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**Nom du produit: ACETONE**

(suite de la page 8)

**Annexe: Scénario d'exposition**· **Désignation brève du scénario d'exposition** Voir annexe 1.

FR

## Aceton

Version 8.0

Date de révision 07.12.2010

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### Acetone - Industrial

2010-08-23

#### Identified Industrial Generic Exposure Scenarios (GESs) of Acetone

| GES No.<br>EC No.<br>CAS No. | Subsector   | Main SU                   | Description  | PROC   | ERC   | Acetone<br>200-662-2<br>67-64-1   |
|------------------------------|---|---------------------------|--|--|---|---|
| 1                            | Manufacture, Processing and Distribution of substances and mixtures | All Industrial Uses (SU3) | Manufacture, Processing (see examples below1), Formulation and Distribution of the substance or mixtures. Includes recycling/ recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities  | PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC14, PROC15        | ERC1, ERC2, ERC4, ERC6a<br><br>ERCs are to be checked with the ECT tool | x   |
| 2                            | Use in laboratories   | All Industrial Uses (SU3) | Use of the substance within laboratory settings, including material transfers and equipment cleaning   | PROC10, PROC15   | ERC4<br><br>ERCs are to be checked with the ECT tool                    | x +<br>PROC19   |
| 3                            | Uses in Coatings  | All Industrial Uses (SU3) | Covers the use in coatings (paints, inks, adhesives, and production of textiles, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities. | PROC5, PROC8a, PROC10, PROC13  | ERC4<br><br>ERCs are to be checked with the ECT tool                    | x +<br>PROC1, PROC2, PROC3, PROC4, PROC7, PROC8b, PROC9, PROC15, PROC19 |
| 4                            | Use as binders and release agents                                   | All Industrial Uses (SU3) | Covers the use as binders and release agents including material transfers, mixing, application (including spraying and brushing), mould forming and casting, and handling of waste.  | PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13         | ERC5<br><br>ERCs are to be checked with the ECT tool                    | x   |
| 5                            | Rubber production and processing                                    | All Industrial Uses (SU3) | Manufacture of tyres and general rubber articles, including processing of raw (uncured) rubber, handling and mixing of rubber additives, vulcanising, cooling and finishing.   | PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14 | ERC6d<br><br>ERCs are to be checked with the ECT tool                   | x   |

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| GES No.<br>EC No.<br>CAS No. | Subsector   | Main SU                   | Description   | PROC  | ERC  | Acetone<br>200-662-2<br>67-64-1 |
|------------------------------|---|---------------------------|---|---|--|---------------------------------|
| 6                            | Polymer manufacturing                               | All Industrial Uses (SU3) | Manufacturing of formulated polymers including material transfers, additives handling (e.g. pigments, stabilisers, fillers, plasticisers, etc.), moulding, curing and forming activities, material re-works, storage and associated maintenance.  | PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15 | ERC6d<br>ERCs are to be checked with the ECT tool          | x                               |
| 7                            | Polymer processing                                  | All Industrial Uses (SU3) | Processing of formulated polymers including material transfers, additives handling (e.g. pigments, stabilisers, fillers, plasticisers, etc.), moulding, curing and forming activities, material re-works, storage and associated maintenance.   | PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15 | ERC6d<br>ERCs are to be checked with the ECT tool          | x                               |
| 9                            | Use in Cleaning Agents                              | All Industrial Uses (SU3) | Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance. | PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC19         | ERC4<br>ERCs are to be checked with the ECT tool           | x                               |
| 10                           | Use in Oil field drilling and production operations | All Industrial Uses (SU3) | Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers.   | PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b  | ERC 4<br>ERCs are to be checked with the ECT tool          | x                               |
| 11                           | Blowing agents                                      | All Industrial Uses (SU3) | Use as a blowing agent for rigid and flexible foams, including material transfers, mixing and injection, curing, cutting, storage and packing   | PROC1, PROC2, PROC3, PROC8b, PROC9, PROC12  | ERC4, (ERC10a)<br>ERCs are to be checked with the ECT tool | x                               |
| 12                           | Mining chemicals                                    | All Industrial Uses (SU3) | Covers the use of the substance in extraction processes at mining operations, including material transfers, winning and separation activities, and substance recovery and disposal.   | PROC1, PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9  | ERC8d<br>ERCs are to be checked with the ECT tool          | x                               |

<sup>1</sup> Examples for processing: use as intermediate, use as monomer etc. use as solvent, use for the manufacturing of resins

<sup>2</sup> Polymer Examples: FRP, UV, VE

Please note also: PC's and AC's are only for consumer.  
For checking ERC's please use the respective environmental calculation tool (ECT) ECT Acetone or ECT Phenol or ECT Cumene or ECT AMS or ECT ACP

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### Acetone - Industrial

2010-08-23

#### Identified Industrial PROCs

|                    |           |
|--------------------|-----------|
| PROC No.           | Acetone   |
| EC No.             | 200-662-2 |
| CAS No.            | 67-64-1   |
| PROC1              | x         |
| PROC2              | x         |
| PROC3              | x         |
| PROC4              | x         |
| PROC5              | x         |
| PROC6              | x         |
| PROC7              | x         |
| PROC8a             | x         |
| PROC8b             | x         |
| PROC9              | x         |
| PROC10<br>(2 uses) | x         |
| PROC12             | x         |
| PROC13             | x         |
| PROC14             | x         |
| PROC15             | x         |
| PROC19             | x         |
| Sum                | 16        |

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2010-08-23

Industrial Processes relevant for Acetone and Acetone containing products

CSR-Worker-Acetone-ind \ Identification

## Generic Exposure Scenario:

| Substance specific information          |         | Reference Values  |               |
|---|---------|---|---------------|
| Substance                               |         | DNEL worker - inhalation (long term)  | 500 ppm       |
| CASnr                                   | 67-64-1 | DNEL worker - inhalation (short term)   | ppm           |
| Substance volatility:                   | 233 hPa | DNEL worker - dermal (long term)  | 186 mg/kg/day |
| TRA volatility range                    | high    |   |               |
| physical property                       | liquid  |   |               |
| <b>Section 1</b>                        |         |   |               |
| <b>Exposure Scenario</b>                |         | <b>Exposure Scenario Title</b>  |               |
| Processes, tasks, activities covered    |         | <b>Main sector of Use: SU3 = All Industrial Uses</b>  |               |
| Life Cycle Stage / Sector of Use        |         | All Industrial Processes relevant for Acetone and Acetone containing products.  |               |
| Applicable Use Descriptors (PROC or PC) |         | SU3 = All Industrial Uses   |               |
| Applicable Use Descriptors              |         | PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC12, PROC13, PROC14, PROC15, PROC19  |               |
| <b>Default Operational Conditions</b>   |         | ERCs and local conditions are to be checked with the Excel tool ECT Acetone   |               |
| Product characteristics                 |         |   |               |
| Acute Hazard                            |         | R phrases: 11-Highly flammable, 36-Irritating to eyes, 56-Repeated exposure may cause skin dryness or cracking, 67-Vapours may cause drowsiness and dizziness   |               |
| <b>General measures</b>                 |         | <p>Locate bulk storage outdoors [E2]</p> <p>Use suitable eye protection [PPE26]</p> <p>If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and provide employee skin care programmes [PPE20]</p> <p>Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. [E1]</p> |               |
| concentration of substance in product   |         | Covers percentage substance in the product up to 100 % (unless stated differently) [G13].   |               |
| physical form of product                |         | Liquid, vapour pressure > 10 kPa [OC5].   |               |
| frequency and duration of use           |         | Covers daily exposures up to 8 hours (unless stated differently) [G2]   |               |
| other Operational Conditions of use     |         | Assumes a good basic standard of occupational hygiene is implemented [G1]. :  |               |

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|  |   |            |
|--|---|------------|
| CSR-Worker-Acetone-ind \ Identification  | Industrial Processes relevant for Acetone and Acetone containing products   | 2010-08-23 |
| <b>Section 2</b>   | <b>Operational conditions and risk management measures</b>  |            |
| <b>Section 2.1</b>   | <b>Control of environmental exposure</b>  |            |
| Product characteristics  | substance is a unique structure, ketone, readily biodegradable  |            |
| Amounts used   | Annual site tonnage (tonnes/year): please use the Excel-Tool 'ECT Acetone' to calculate your maximum tonnage/year   |            |
| Frequency and duration of use  | Emission Days (days/year): 360day   |            |
| Other Operational Conditions of use affecting environmental exposure                                       | Indoor/Outdoor use  |            |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | Common practices vary across sites thus conservative process release estimates used. Typical technical measures are closed systems or scrubbers or charcoal adsorbers. Typical onsite offgas treatment technology provides removal efficiency of 90 % |            |
| Organisation measures to prevent/limit release from site   | Common practices vary across sites thus conservative process release estimates used. Please use the Excel-Tool 'ECT Acetone' to check your local conditions.  |            |
| Conditions and measures related to municipal sewage treatment plant  | Please use the Excel-Tool 'ECT Acetone' to check your local conditions.   |            |
| Conditions and measures related to external treatment of waste for disposal                                | External treatment and disposal of waste should comply with applicable regulations  |            |
| Conditions and measures related to external recovery of waste  | External treatment and disposal of waste should comply with applicable regulations  |            |
| Other environmental control measures additional to above   | none  |            |
| <b>Section 2.2</b>   | <b>Control of worker exposure</b>   |            |
|  | see chapter RMAs  |            |
| <b>Section 3</b>   | <b>Exposure Estimation</b>  |            |
| <b>3.1. Health</b>   | GES Worker Chemical Safety Assessment (CSA) Template  |            |
|  | <a href="http://cefic.org/templates/hwPublications.asp?HID=750">http://cefic.org/templates/hwPublications.asp?HID=750</a>   |            |
| <b>3.2. Environment</b>  | ECT Acetone   |            |
| <b>Section 4</b>   | <b>Guidance to check compliance with the Exposure Scenario</b>  |            |
| <b>4.1. Health</b>   | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.  |            |
| <b>4.2. Environment</b>  | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.  |            |

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| CSR-Worker-Acetone-ind \ RMMs |   |                  | Industrial Processes relevant for Acetone and Acetone containing products |  |  | 2010-08-23   |  |  |
|-------------------------------|---|------------------|---|--|--|--|--|--|
| Generic Exposure Scenario:    |   |                  | Industrial Processes relevant for Acetone and Acetone containing products |  |  | Risk Management Measures (RMMs)  |  |  |
| No                            | Use Descriptor (PROCs)  | SU 3 / SU 22     | Contributing Scenario   | Operational Conditions & typical RMMs  |  | advised under REACH  |  |  |
| 1                             | PROC 1 - Use in closed process, no likelihood of exposure                                     | Industrial - SU3 | General exposures (closed systems) [CS15].                                | (closed systems) [CS107]; Process sampling [CS2]. ;                          |  | Sample via a closed loop or other system to avoid exposure [E8]; Handle substance within a dosed system [E47]. |  |  |
| 2                             | PROC 2 - Use in closed, continuous process with occasional controlled exposure                | Industrial - SU3 | General exposures (closed systems) [CS15].                                | Continuous process [CS54]; Process sampling [CS2].                           |  | Sample via a closed loop or other system to avoid exposure [E8]; Handle substance within a dosed system [E47]. |  |  |
| 3                             | PROC 3 - Use in closed batch process (synthesis or formulation)                               | Industrial - SU3 | General exposures (closed systems) [CS15].                                | Batch process [CS55]; Process sampling [CS2].                                |  | Sample via a closed loop or other system to avoid exposure [E8]; Handle substance within a dosed system [E47]. |  |  |
| 4                             | PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises     | Industrial - SU3 | Process sampling [CS2]; (open systems) [CS108]                            |  |  |  |  |  |
| 5                             | PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact)        | Industrial - SU3 | Mixing operations (open systems) [CS30].                                  | Batch process [CS55]; Process sampling [CS2].                                |  |  |  |  |
| 6                             | PROC 6 - Calendaring operations   | Industrial - SU3 | Calendaring (including Banburys) [CS64]                                   |  |  |  |  |  |
| 7                             | PROC 7 - Industrial spraying  | Industrial - SU3 | Spraying/fogging by machine application [CS25].                           | with local exhaust ventilation [CS109]                                       |  | Ensure material transfers are under containment or extratrad ventilation [E66].                                |  |  |
| 8                             | PROC 7 - Industrial spraying  | Industrial - SU3 | Spraying/fogging by machine application [CS25].                           |  |  | Ensure operation is undertaken outdoors [E69].   |  |  |
| 9                             | PROC 7 - Industrial spraying  | Industrial - SU3 | Spraying/fogging by machine application [CS25].                           |  |  | Wear a respirator conforming to EN140 with Type A filter or better. [PPE22]                                    |  |  |
| 10                            | PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Industrial - SU3 | Bulk transfers [CS14].  | Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22]. |  |  |  |  |
| 11                            | PROC 8b - Transfer of chemicals from/to vessels/ large containers at dedicated facilities     | Industrial - SU3 | Bulk transfers [CS14].  | Dedicated facility [CS81]; Transfer from/pouring from containers [CS22].     |  |  |  |  |



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Industrial Processes relevant for Acetone and Acetone containing products

CSR-Worker-Acetone-ind \ RMMs

| Generic Exposure Scenario: |  |                  |  | Industrial Processes relevant for Acetone and Acetone containing products |  | Industrial Processes relevant for Acetone and Acetone containing products |  | Risk Management Measures (RMMs)       |  |
|----------------------------|--|------------------|--|---|--|---|--|---------------------------------------|--|
| No                         | Use Descriptor (PROCs)   | SU 3 / SU 22     | Contributing Scenario  | Operational Conditions & typical RMMs                                     |  | Operational Conditions & typical RMMs                                     |  | Operational Conditions & typical RMMs |  |
| 12                         | PROC 9 - Transfer of chemicals into small containers (dedicated filling line)                        | Industrial - SU3 | Small package filling [CS7].   | Dedicated facility [CS81]; Pouring from small containers [CS9].           |  | Dedicated facility [CS81]; Pouring from small containers [CS9].           |  | advised under REACH                   |  |
| 13                         | PROC 10 - Roller application or brushing   | Industrial - SU3 | Rolling, Brushing [CS51].  | Or: Equipment cleaning and maintenance [CS39].                            |  | Or: Equipment cleaning and maintenance [CS39].                            |  |                                       |  |
| 14                         | PROC 10 - Roller application or brushing   | Industrial - SU3 | Equipment cleaning and maintenance [CS39].   |   |  |   |  |                                       |  |
| 15                         | PROC 12 - Use of blow agents for foam production   | Industrial - SU3 | Foaming [CS132].   | Production of foam-based objects [CS125].                                 |  | Production of foam-based objects [CS125].                                 |  |                                       |  |
| 16                         | PROC 13 - Treatment of articles by dipping and pouring   | Industrial - SU3 | Dipping, immersion and pouring [CS4].  |   |  |   |  |                                       |  |
| 17                         | PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation | Industrial - SU3 | Production or preparation of articles by tableting, compression, extrusion or pelletisation [CS100]. |   |  |   |  |                                       |  |
| 18                         | PROC 15 - Use of laboratory reagents in small scale laboratories                                     | Industrial - SU3 | Laboratory activities [CS36].  |   |  |   |  |                                       |  |
| 19                         | PROC 19 - Hand-mixing with intimate contact (only PPE available)                                     | Industrial - SU3 | Hand application - fingerpaints, pastels, adhesives [CS72].  | Wear suitable gloves tested to EN374 [PPE15].                             |  | Wear suitable gloves tested to EN374 [PPE15].                             |  |                                       |  |
|                            |  |                  |  |   |  |   |  |                                       |  |
|                            |  |                  |  |   |  |   |  |                                       |  |
|                            |  |                  |  |   |  |   |  |                                       |  |
|                            |  |                  |  |   |  |   |  |                                       |  |

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| Generic Exposure Scenario: |   |                  | Industrial Processes relevant for Acetone and Acetone containing products |  |   | Dermal Exposure                           |                           |            | Dermal Exposure                    |  |  |
|----------------------------|---|------------------|---|--|---|---|---------------------------|------------|------------------------------------|--|--|
| No                         | Use Descriptor (PROCs)  | SU 3 / SU 22     | Contributing Scenario   | Operational Conditions & typical RMIs  | TRIA Predicted Dermal exposure (mg/kg) - no modifiers | TRIA Dermal exposure LEV reduction factor | TRIA concentration factor | PPE factor | extra exposure modifier (optional) | Free hat - comment to clarify additional modifier (dermal) | Predicted Dermal exposure (mg/kg) - modified |
| 1                          | PROC 1 - Use in closed process, no likelihood of exposure                                     | Industrial - SU3 | General exposures (closed systems) [CS15].                                | General exposures (closed systems) [CS107]; Process sampling [CS2].          | 0.34  |   |                           |            |                                    |  | 0.34   |
| 2                          | PROC 2 - Use in closed, continuous process with occasional controlled exposure                | Industrial - SU3 | General exposures (closed systems) [CS15].                                | Continuous process [CS54]; Process sampling [CS2].                           | 1.37  |   |                           |            |                                    |  | 1.37   |
| 3                          | PROC 3 - Use in closed batch process (synthesis or formulation)                               | Industrial - SU3 | General exposures (closed systems) [CS15].                                | Batch process [CS56]; Process sampling [CS2].                                | 0.34  |   |                           |            |                                    |  | 0.34   |
| 4                          | PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure            | Industrial - SU3 | Process sampling [CS2]; (open systems) [CS108]                            |  | 6.86  |   |                           |            |                                    |  | 6.86   |
| 5                          | PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact)        | Industrial - SU3 | Mixing operations (open systems) [CS30].                                  | Batch process [CS58]; Process sampling [CS2].                                | 13.71   |   |                           |            |                                    |  | 13.71  |
| 6                          | PROC 6 - Calendaring operations   | Industrial - SU3 | Calendaring (including Banbury) [CS64]                                    |  | 27.43   |   |                           |            |                                    |  | 27.43  |
| 7                          | PROC 7 - Industrial spraying  | Industrial - SU3 | Spraying/fogging by machine application [CS25].                           | with local exhaust ventilation [CS109]                                       | 42.86   | 0.05                                      |                           |            |                                    |  | 2.14   |
| 8                          | PROC 7 - Industrial spraying  | Industrial - SU3 | Spraying/fogging by machine application [CS25].                           |  | 42.86   |   |                           |            |                                    |  | 42.86  |
| 9                          | PROC 7 - Industrial spraying  | Industrial - SU3 | Spraying/fogging by machine application [CS25].                           |  | 42.86   |   |                           |            |                                    |  | 42.86  |
| 10                         | PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Industrial - SU3 | Bulk transfers [CS14].  | Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22]. | 13.71   |   |                           |            |                                    |  | 13.71  |
| 11                         | PROC 8b - Transfer of chemicals from/to vessels/ large containers at dedicated facilities     | Industrial - SU3 | Bulk transfers [CS14].  | Dedicated facility [CS81]; Transfer from/pouring from containers [CS22].     | 6.86  |   |                           |            |                                    |  | 6.86   |
| 12                         | PROC 9 - Transfer of chemicals into small containers (dedicated filling line)                 | Industrial - SU3 | Small package filling [CS7]   | Dedicated facility [CS81]; Pouring from small containers [CS8].              | 6.86  |   |                           |            |                                    |  | 6.86   |

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Industrial Processes relevant for Acetone and Acetone containing products

CSR-Worker-Acetone-Ind \ RCR

| Generic Exposure Scenario: |   |                  | Industrial Processes relevant for Acetone and Acetone containing products |  | Risk Characterization |              |                  |
|----------------------------|---|------------------|---|--|-----------------------|--------------|------------------|
| No                         | Use Descriptor (PROCs)  | SU 3 / SU 22     | Contributing Scenario   | Operational Conditions & typical RMIs  | RCR (Inhalation)      | RCR (dermal) | RCR (all routes) |
| 1                          | PROC 1 - Use in closed process, no likelihood of exposure                                     | Industrial - SU3 | General exposures (closed systems) [CS15].                                | (closed systems) [CS107]; Process sampling [CS2]. ;                          | 0.00002               | 0.002        | 0.002            |
| 2                          | PROC 2 - Use in closed, continuous process with occasional controlled exposure                | Industrial - SU3 | General exposures (closed systems) [CS15].                                | Continuous process [CS54]; Process sampling [CS2].                           | 0.10                  | 0.01         | 0.11             |
| 3                          | PROC 3 - Use in closed batch process (synthesis or formulation)                               | Industrial - SU3 | General exposures (closed systems) [CS15].                                | Batch process [CS55]; Process sampling [CS2].                                | 0.20                  | 0.002        | 0.20             |
| 4                          | PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises     | Industrial - SU3 | Process sampling [CS2]; (open systems) [CS106]                            |  | 0.20                  | 0.04         | 0.24             |
| 5                          | PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact)        | Industrial - SU3 | Mixing operations (open systems) [CS30].                                  | Batch process [CS55]; Process sampling [CS2].                                | 0.50                  | 0.07         | 0.57             |
| 6                          | PROC 6 - Calendaring operations   | Industrial - SU3 | Calendaring (including Banburys) [CS64]                                   |  | 0.50                  | 0.15         | 0.65             |
| 7                          | PROC 7 - Industrial spraying  | Industrial - SU3 | Spraying/fogging by machine application [CS25].                           | with local exhaust ventilation [CS109]                                       | 0.05                  | 0.01         | 0.06             |
| 8                          | PROC 7 - Industrial spraying  | Industrial - SU3 | Spraying/fogging by machine application [CS25].                           |  | 0.70                  | 0.23         | 0.93             |
| 9                          | PROC 7 - Industrial spraying  | Industrial - SU3 | Spraying/fogging by machine application [CS25].                           |  | 0.10                  | 0.23         | 0.33             |
| 10                         | PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Industrial - SU3 | Bulk transfers [CS14].  | Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22]. | 0.50                  | 0.07         | 0.57             |
| 11                         | PROC 8b - Transfer of chemicals from/to vessels/ large containers at dedicated facilities     | Industrial - SU3 | Bulk transfers [CS14].  | Dedicated facility [CS81]; Transfer from/pouring from containers [CS22].     | 0.30                  | 0.037        | 0.34             |

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Industrial Processes relevant for Acetone and Acetone containing products

CSR-Worker-Acetone-Ind \ RCR

| Generic Exposure Scenario: |  |                  | Industrial Processes relevant for Acetone and Acetone containing products                            |  | Risk Characterization |              |                  |
|----------------------------|--|------------------|--|--|-----------------------|--------------|------------------|
| No                         | Use Descriptor (PROCs)   | SU 3 / SU 22     | Contributing Scenario  | Operational Conditions & typical RMMs                              | RCR (inhalation)      | RCR (dermal) | RCR (all routes) |
| 12                         | PROC 9 - Transfer of chemicals into small containers (dedicated filling line)                        | Industrial - SU3 | Small package filling [CS7].   | Dedicated facility [CS81];<br>Pouring from small containers [CS9]. | 0.40                  | 0.04         | 0.44             |
| 13                         | PROC 10 - Roller application or brushing   | Industrial - SU3 | Rolling, Brushing [CS51].  | Or: Equipment cleaning and maintenance [CS39].                     | 0.50                  | 0.15         | 0.65             |
| 14                         | PROC 10 - Roller application or brushing   | Industrial - SU3 | Equipment cleaning and maintenance [CS39].   |  | 0.50                  | 0.15         | 0.65             |
| 15                         | PROC 12 - Use of blow agents for foam production   | Industrial - SU3 | Foaming [CS132].   | Production of foam-based objects [CS125].                          | 0.20                  | 0.00         | 0.20             |
| 16                         | PROC 13 - Treatment of articles by dipping and pouring   | Industrial - SU3 | Dipping, immersion and pouring [CS4].  |  | 0.50                  | 0.074        | 0.57             |
| 17                         | PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation | Industrial - SU3 | Production or preparation of articles by tableting, compression, extrusion or pelletisation [CS100]. |  | 0.10                  | 0.00         | 0.10             |
| 18                         | PROC 15 - Use of laboratory reagents in small scale laboratories                                     | Industrial - SU3 | Laboratory activities [CS36].  |  | 0.10                  | 0.00         | 0.10             |
| 19                         | PROC 19 - Hand-mixing with intimate contact (only PPE available)                                     | Industrial - SU3 | Hand application - fingerpaints, pastels, adhesives [CS72].  |  | 0.50                  | 0.15         | 0.65             |
|                            |  |                  |  |  |                       |              |                  |
|                            |  |                  |  |  |                       |              |                  |
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### Acetone - Professional

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#### Identified Professional Generic Exposure Scenarios (GESs) of Acetone

| GES No.<br>EC No.<br>CAS No. | Subsector                         | Main SU                      | Description  | PROC   | ERC  | Acetone<br>200-662-2<br>67-64-1                                       |
|------------------------------|-----------------------------------|------------------------------|--|--|--|---|
| 1                            | Use in laboratories               | All Professional Uses (SU22) | Use of small quantities within laboratory settings, including material transfers and equipment cleaning  | PROC10, PROC15   | ERC8a<br>ERCs are to be checked with the ECT tool                                    | x + PROC19  |
| 2                            | Uses in Coatings                  | All Professional Uses (SU22) | Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods), and equipment cleaning, maintenance and associated laboratory activities. | PROC5, PROC8a, PROC10, PROC13  | ERC8a, ERC8c, ERC8d, ERC8f<br>ERCs are to be checked with the ECT tool               | x + PROC1, PROC2, PROC3, PROC4, PROC8b, PROC9, PROC11, PROC15, PROC19 |
| 3                            | Use as binders and release agents | All Professional Uses (SU22) | Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.   | PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC11          | ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f<br>ERCs are to be checked with the ECT tool | x   |
| 4                            | Polymer manufacturing             | All Professional Uses (SU22) | Manufacturing of formulated polymers including material transfers, moulding and forming activities, material re-works and associated maintenance.  | PROC8a   | ERC8a, ERC8d, ERC8c, ERC8f<br>ERCs are to be checked with the ECT tool               | x + PROC1, PROC2, PROC8b, PROC9, PROC14                               |
| 5                            | Polymer processing                | All Professional Uses (SU22) | Processing of formulated polymers including material transfers, moulding and forming activities, material re-works and associated maintenance.   | PROC8a   | ERC8a, ERC8d, ERC8c, ERC8f<br>ERCs are to be checked with the ECT tool               | x + PROC1, PROC2, PROC8b, PROC9, PROC14                               |
| 7                            | Use in Cleaning Agents            | All Professional Uses (SU22) | Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand).  | PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC19 | ERC8a<br>ERCs are to be checked with the ECT tool                                    | x + ERC8d   |

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| GES No.<br>EC No.<br>CAS No. | Subsector   | Main SU                      | Description   | PROC  | ERC  | Acetone<br>200.662.2<br>67-64-1 |
|------------------------------|---|------------------------------|---|---|--|---------------------------------|
| 8                            | Use in Oil field drilling and production operations | All Professional Uses (SU22) | Covers the use as a component of cleaning products including pouring/unloading from drums or containers   | PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b                  | ERC8d<br>ERCs are to be checked with the ECT tool        | x                               |
| 9                            | Agrochemical uses                                   | All Professional Uses (SU22) | Use as an agrochemical excipient for application by manual or machine spraying, smokes and fogging; including equipment clean-downs and disposal.     | PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13, PROC19 | ERC8a, ERC8d<br>ERCs are to be checked with the ECT tool | x                               |
| 10                           | De-icing and anti-icing applications                | All Professional Uses (SU22) | Ice prevention and de-icing of vehicles, aircraft and other equipment by spraying   | PROC1, PROC2, PROC8b, PROC11, PROC19                        | ERC8d<br>ERCs are to be checked with the ECT tool        | x                               |
| 11                           | Explosives manufacture & use                        | All Professional Uses (SU22) | Covers exposures arising from the manufacture and use of slurry explosives (including materials transfer, mixing and charging) and equipment cleaning | PROC1, PROC3, PROC5, PROC8a, PROC8b                         | ERC8d<br>ERCs are to be checked with the ECT tool        | x                               |

<sup>2</sup> Polymer Examples: FRP, UV, VE

Please note also: PC's and AC's are only for consumer.  
For checking ERC's please use the respective environmental calculation tool (ECT) ECT Acetone or ECT Phenol or ECT Cumene or ECT AMS or ECT ACP



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### Acetone - Professional

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#### Identified Professional PROCs

| PROC No.           | Acetone   |
|--------------------|-----------|
| EC No.             | 200-662-2 |
| CAS No.            | 67-64-1   |
| PROC1              | x         |
| PROC2              | x         |
| PROC3              | x         |
| PROC4              | x         |
| PROC5              | x         |
| PROC6              | x         |
| PROC8a             | x         |
| PROC8b             | x         |
| PROC9              | x         |
| PROC10<br>(2 uses) | x         |
| PROC11             | x         |
| PROC13             | x         |
| PROC14             | x         |
| PROC15             | x         |
| PROC19             | x         |
| Sum                | 15        |

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Main sector of Use: SU22 = All Professional Uses

CSR-Worker-Acetone-prof \ Identification

| Generic Exposure Scenario:                |         |   |     |           |
|---|---------|---|-----|-----------|
| Substance specific information            |         | Reference Values  |     |           |
| Substance                                 |         | DNEL worker - inhalation (long term)  | 500 | ppm       |
| CASnr                                     | 67-64-1 | DNEL worker - inhalation (short term)   |     | ppm       |
| Substance volatility:                     | 233 hPa | DNEL worker - dermal (long term)  | 186 | mg/kg/day |
| TRA volatility range                      | high    |   |     |           |
| physical property                         | liquid  |   |     |           |
| Section 1                                 |         |   |     |           |
| Exposure Scenario                         |         | Exposure Scenario Title   |     |           |
| Processes, tasks, activities covered      |         | Main sector of Use: SU22 = All Professional Uses  |     |           |
| Life Cycle Stage / Sector of Use          |         | All Professional Processes relevant for Acetone and Acetone containing products.  |     |           |
| Applicable Use Descriptors (PROC or PC)   |         | SU22 = All Professional Uses  |     |           |
| Applicable Use Descriptors (ERC or SpERC) |         | PROC1, PROC2, PROC3, PROC4, PROC5, PROC8, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19   |     |           |
| Default Operational Conditions            |         | ERCs and local conditions are to be checked with the Excel tool ECT Acetone   |     |           |
| Acute Hazard                              |         | R phrases: 11-Highly flammable, 36-Irritating to eyes, 56-Repeated exposure may cause skin dryness or cracking, 67-Vapours may cause drowsiness and dizziness   |     |           |
| General measures                          |         | <p>Locate bulk storage outdoors [E2]</p> <p>Use suitable eye protection [PPE26]</p> <p>If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and provide employee skin care programmes [PPE20]</p> <p>Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. [E1]</p> |     |           |
| concentration of substance in product     |         | Covers percentage substance in the product up to 100 % (unless stated differently) [G13].   |     |           |
| physical form of product                  |         | Liquid, vapour pressure > 10 kPa [OC5].   |     |           |
| frequency and duration of use             |         | Covers daily exposures up to 8 hours (unless stated differently) [G2]   |     |           |
| other Operational Conditions of use       |         | Assumes a good basic standard of occupational hygiene is implemented [G1]. ;  |     |           |

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|  |  |            |
|--|--|------------|
| CSR-Worker-Acetone-prof \ Identification   | Main sector of Use: SU22 = All Professional Uses   | 2010-08-23 |
| <b>Section 2</b>   | <b>Operational conditions and risk management measures</b>   |            |
| <b>Section 2.1</b>   | <b>Control of environmental exposure</b>   |            |
| Product characteristics  | substance is a unique structure, ketone, readily biodegradable   |            |
| Amounts used   | Annual site tonnage (tonnes/year): please use the Excel-Tool 'ECT Acetone' to calculate your maximum tonnage/year  |            |
| Frequency and duration of use  | Emission Days (days/year): 360day  |            |
| Other Operational Conditions of use affecting environmental exposure                                       | Indoor/Outdoor use   |            |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | Common practices vary across sites thus conservative process release estimates used. Typical technical measures are closed systems or scrubbers or charcoal adsorbers. Typical onsite offgas treatment technology provides removal efficiency of 90 %            |            |
| Organisation measures to prevent/limit release from site   | Common practices vary across sites thus conservative process release estimates used. Please use the Excel-Tool 'ECT Acetone' to check your local conditions.   |            |
| Conditions and measures related to municipal sewage treatment plant  | Please use the Excel-Tool 'ECT Acetone' to check your local conditions.  |            |
| Conditions and measures related to external treatment of waste for disposal                                | External treatment and disposal of waste should comply with applicable regulations   |            |
| Conditions and measures related to external recovery of waste  | External treatment and disposal of waste should comply with applicable regulations   |            |
| Other environmental control measures additional to above   | none   |            |
| <b>Section 2.2</b>   | <b>Control of worker exposure</b>  |            |
|  | see chapter RMAs   |            |
| <b>Section 3</b>   | <b>Exposure Estimation</b>   |            |
| <b>3.1. Health</b>   | GES Worker Chemical Safety Assessment (CSA) Template<br><a href="http://cefic.org/templates/hwPublications.asp?HID=750">http://cefic.org/templates/hwPublications.asp?HID=750</a>  |            |
| <b>3.2. Environment</b>  | ECT Acetone<br><a href="http://www.reachcentre.eu/EN/consortium-management/consortia-under-reach/phenol-derivatives-reach-consortium.aspx">http://www.reachcentre.eu/EN/consortium-management/consortia-under-reach/phenol-derivatives-reach-consortium.aspx</a> |            |
| <b>Section 4</b>   | <b>Guidance to check compliance with the Exposure Scenario</b>   |            |
| <b>4.1. Health</b>   | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.   |            |
| <b>4.2. Environment</b>  | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.   |            |

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| CSR-Worker-Aceton-prof \ RMMs |  |                     | Professional Processes relevant for Acetone and Acetone containing products     |   |  | 2010-08-23  |       |
|-------------------------------|--|---------------------|---|---|--|---|-------|
| Generic Exposure Scenario:    |  |                     | Professional Processes relevant for Acetone and Acetone containing products     |   |  | Risk Management Measures (RMMs)   |       |
| No                            | Use Descriptor (PROCs)   | SU 3 / SU 22        | Contributing Scenario   | Operational Conditions & typical RMMs   |  | advised under REACH   |       |
| 1                             | PROC 1 - Use in closed process, no likelihood of exposure                                    | Professional - SU22 | General exposures (closed systems) [CS15].                                      | (closed systems) [CS107]; Process sampling [CS2]. ;   |  | Sample via a closed loop or other system to avoid exposure [E8].; Handle substance within a dosed system [E47]. |       |
| 2                             | PROC 2 - Use in closed, continuous process with occasional controlled exposure               | Professional - SU22 | General exposures (closed systems) [CS15].                                      | Continuous process [CS54]. ; Process sampling [CS2].  |  | Sample via a closed loop or other system to avoid exposure [E8].; Handle substance within a dosed system [E47]. |       |
| 3                             | PROC 3 - Use in closed batch process (synthesis or formulation)                              | Professional - SU22 | General exposures (closed systems) [CS15].                                      | Batch process [CS55]. Process sampling [CS2].   |  | Sample via a closed loop or other system to avoid exposure [E8].; Handle substance within a dosed system [E47]. |       |
| 4                             | PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises    | Professional - SU22 | Process sampling [CS2]. ; (open systems) [CS108]                                |   |  |   |       |
| 5                             | PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)        | Professional - SU22 | Mixing operations (open systems) [CS30].  | Batch process [CS55]. ; Process sampling [CS2]. ; with local exhaust ventilation [CS109]                              |  | Ensure material transfers are under containment or extract ventilation [E66].                                   |       |
| 6                             | PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)        | Professional - SU22 | Mixing operations (open systems) [CS30].  | Batch process [CS55]. Process sampling [CS2].   |  | Ensure operation is undertaken outdoors [E69].  |       |
| 7                             | PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)        | Professional - SU22 | Mixing operations (open systems) [CS30].  | Batch process [CS55]. Process sampling [CS2].   |  | Avoid carrying out activities involving exposure for more than 4 hours [28].                                    |       |
| 8                             | PROC 6 -Calendering operations   | Professional - SU22 | Calendering (including Banburys) [CS64]. with local exhaust ventilation [CS109] |   |  | Ensure operation is undertaken outdoors [E69].  |       |
| 9                             | PROC 6 -Calendering operations   | Professional - SU22 | Calendering (including Banburys) [CS64]   |   |  | Ensure operation is undertaken outdoors [E69].  |       |
| 10                            | PROC 6 -Calendering operations   | Professional - SU22 | Calendering (including Banburys) [CS64]   |   |  | Avoid carrying out activities involving exposure for more than 4 hours [28].                                    |       |
| 11                            | PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Professional - SU22 | Bulk transfers [CS14].  | Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22]. ; with local exhaust ventilation [CS109] |  | Ensure material transfers are under containment or extract ventilation [E66].                                   |       |
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Professional Processes relevant for Acetone and Acetone containing products

CSR-Worker-Acetone-prof \ RMMs

| Generic Exposure Scenario: |   |                     | Professional Processes relevant for Acetone and Acetone containing products |   | Risk Management Measures (RMMs)   |  |
|----------------------------|---|---------------------|---|---|---|--|
| No                         | Use Descriptor (PROCs)  | SU 3 / SU 22        | Contributing Scenario   | Operational Conditions & typical RMMs   | advised under REACH   |  |
| 12                         | PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Professional - SU22 | Bulk transfers [CS14].  | Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].            | Ensure operation is undertaken outdoors [E69].  |  |
| 13                         | PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Professional - SU22 | Bulk transfers [CS14].  | Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].            | Avoid carrying out activities involving exposure for more than 4 hours [28].  |  |
| 14                         | PROC 8b - Transfer of chemicals from/to vessels/ large containers at dedicated facilities     | Professional - SU22 | Bulk transfers [CS14].  | Dedicated facility [CS81]; Transfer from/pouring from containers [CS22].                |   |  |
| 15                         | PROC 9 - Transfer of chemicals into small containers (dedicated filling line)                 | Professional - SU22 | Small package filling [CS7].  | Dedicated facility [CS81]; Pouring from small containers [CS9].                         |   |  |
| 16                         | PROC 10 - Roller application or brushing  | Professional - SU22 | Rolling, Brushing [CS51].   | Or: Equipment cleaning and maintenance [CS39]; ; with local exhaust ventilation [CS109] | Ensure material transfers are under containment or extract ventilation [E66].   |  |
| 17                         | PROC 10 - Roller application or brushing  | Professional - SU22 | Rolling, Brushing [CS51].   | Or: Equipment cleaning and maintenance [CS39].  | Limit the substance content in the product to 25% [OC18].   |  |
| 18                         | PROC 10 - Roller application or brushing  | Professional - SU22 | Rolling, Brushing [CS51].   | Or: Equipment cleaning and maintenance [CS39].  | Avoid carrying out activities involving exposure for more than 4 hours [28].  |  |
| 19                         | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24].                              | with local exhaust ventilation [CS109]  | Ensure material transfers are under containment or extract ventilation [E66].   |  |
| 20                         | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24].                              |   | Limit the substance content in the product to 25% [OC18]. Ensure operation is undertaken outdoors [E69]. Avoid carrying out activities involving exposure for more than 4 hours [28]. |  |
| 21                         | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24].                              |   | Avoid carrying out activities involving exposure for more than 1 hour [27].   |  |
| 22                         | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24].                              |   | Wear a respirator conforming to EN140 with Type A filter or better. [PPE22]   |  |

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Professional Processes relevant for Acetone and Acetone containing products

CSR-Worker-Acetone-prof \ RMMs

| Generic Exposure Scenario: |  |                     | Professional Processes relevant for Acetone and Acetone containing products                         |  | Professional Processes relevant for Acetone and Acetone containing products |  | Risk Management Measures (RMMs)   |  |
|----------------------------|--|---------------------|---|--|---|--|---|--|
| No                         | Use Descriptor (PROCs)   | SU 3 / SU 22        | Contributing Scenario   | Operational Conditions & typical RMMs  |   |  | advised under REACH   |  |
| 23                         | PROC 13 - Treatment of articles by dipping and pouring   | Professional - SU22 | Dipping, immersion and pouring [CS4].   |  |   |  |   |  |
| 24                         | PROC 14 - Production of preparations or articles by labelling, compression, extrusion, pelletisation | Professional - SU22 | Production or preparation of articles by labelling, compression, extrusion or pelletisation [CS100] | with local exhaust ventilation [CS109] |   |  | Ensure material transfers are under containment or extract ventilation [E66].                           |  |
| 25                         | PROC 14 - Production of preparations or articles by labelling, compression, extrusion, pelletisation | Professional - SU22 | Production or preparation of articles by labelling, compression, extrusion or pelletisation [CS100] |  |   |  | Avoid carrying out activities involving exposure for more than 4 hours [28].                            |  |
| 26                         | PROC 15 - Use of laboratory reagents in small scale laboratories                                     | Professional - SU22 | Laboratory activities [CS36].   |  |   |  |   |  |
| 27                         | PROC 19 - Hand-mixing with intimate contact (only PPE available)                                     | Professional - SU22 | Hand application - fingerprints, pastels, adhesives [CS72]  |  |   |  | Limit the substance content in the product to 25% [OC18]. Wear suitable gloves tested to EN374 [PPE15]. |  |
| 28                         | PROC 19 - Hand-mixing with intimate contact (only PPE available)                                     | Professional - SU22 | Hand application - fingerprints, pastels, adhesives [CS72]  |  |   |  | Avoid carrying out activities involving exposure for more than 1 hour [27].                             |  |

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CSR-Worker-Acetone-prof \ Inhalation Exposure

Professional Processes relevant for Acetone and Acetone containing products

2010-08-23

| Generic Exposure Scenario: |   |                     | Professional Processes relevant for Acetone and Acetone containing products    |  |                                 | Inhalation Exposure    |  |                              |                         |                |                                    |   |                     |
|----------------------------|---|---------------------|--|--|---------------------------------|------------------------|--|------------------------------|-------------------------|----------------|------------------------------------|---|---------------------|
| No                         | Use Descriptor (PROCs)  | SU3 / SU22          | Contributing Scenario  | Operational Conditions & typical RMIs  | TRACER: Exposure - no modifiers | TRACER: efficiency (%) | Duration ventilation effectiveness (%) | TRACER: concentration factor | TRACER: duration factor | TRACER: factor | Extra exposure modifier (optional) | Free text - comment to clarify additional modifier (optional) | Exposure - modified |
| 1                          | PROC 1 - Use in closed process, no likelihood of exposure                                     | Professional - SU22 | General exposures (closed systems) [CS15]                                      | General exposures (closed systems) [CS15]  | 50.00                           | 80.00                  |  |                              |                         |                |                                    |   | 0.01                |
| 2                          | PROC 2 - Use in closed, continuous process with occasional controlled exposure                | Professional - SU22 | General exposures (closed systems) [CS15]                                      | Continuous process [CS54]; Process sampling [CS2]  | 50.00                           | 80.00                  |  |                              |                         |                |                                    |   | 50                  |
| 3                          | PROC 3 - Use in closed batch process (synthesis or formulation)                               | Professional - SU22 | General exposures (closed systems) [CS15]                                      | Batch process [CS55]; Process sampling [CS2]   | 100.00                          |                        |  |                              |                         |                |                                    |   | 100                 |
| 4                          | PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises     | Professional - SU22 | Process sampling [CS2]; (open systems) [CS106]                                 |  | 200.00                          |                        |  |                              |                         |                |                                    |   | 250                 |
| 5                          | PROC 5 - Mixing or blending in batch and/or significant contact                               | Professional - SU22 | Mixing operations (open systems) [CS30]  | Batch process [CS55]; Process sampling [CS2]; with local exhaust ventilation [CS109]                               | 500.00                          | 80.00                  |  |                              |                         |                |                                    |   | 100                 |
| 6                          | PROC 6 - Mixing or blending in batch processes (multistage and/or significant contact)        | Professional - SU22 | Mixing operations (open systems) [CS30]  | Batch process [CS55]; Process sampling [CS2]   | 500.00                          |                        | 30.00                                  |                              |                         |                |                                    |   | 300                 |
| 7                          | PROC 7 - Mixing or blending in batch processes (multistage and/or significant contact)        | Professional - SU22 | Mixing operations (open systems) [CS30]  | Batch process [CS55]; Process sampling [CS2]   | 500.00                          |                        |  |                              | 1.4 hours               |                |                                    |   | 300                 |
| 8                          | PROC 8 - Calendaring operations   | Professional - SU22 | Calendaring (including Banbury) [CS64]; with local exhaust ventilation [CS109] |  | 600.00                          | 80.00                  |  |                              |                         |                |                                    |   | 400                 |
| 9                          | PROC 9 - Calendaring operations   | Professional - SU22 | Calendaring (including Banbury) [CS64]   |  | 600.00                          |                        | 30.00                                  |                              |                         |                |                                    |   | 400                 |
| 10                         | PROC 10 - Calendaring operations  | Professional - SU22 | Calendaring (including Banbury) [CS64]   |  | 600.00                          |                        |  |                              | 1.4 hours               |                |                                    |   | 300                 |
| 11                         | PROC 11 - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Professional - SU22 | Bulk transfers [CS14]  | Non-dedicated facility [CS62]; Transfer from/pouring from containers [CS2]; with local exhaust ventilation [CS109] | 500.00                          | 80.00                  |  |                              |                         |                |                                    |   | 100                 |
| 12                         | PROC 12 - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Professional - SU22 | Bulk transfers [CS14]  | Non-dedicated facility [CS62]; Transfer from/pouring from containers [CS2]   | 500.00                          |                        | 30.00                                  |                              |                         |                |                                    |   | 300                 |
| 13                         | PROC 13 - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Professional - SU22 | Bulk transfers [CS14]  | Non-dedicated facility [CS62]; Transfer from/pouring from containers [CS2]   | 500.00                          |                        |  |                              | 1.4 hours               |                |                                    |   | 300                 |

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| Generic Exposure Scenario: |   |                     | Professional Processes relevant for Acetone and Acetone containing products                         |  |   | Inhalation Exposure     |  |                               |                          |                 |                                    |   | 2010-08-23                 |  |
|----------------------------|---|---------------------|---|--|---|-------------------------|--|-------------------------------|--------------------------|-----------------|------------------------------------|---|----------------------------|--|
| No                         | Use Descriptor (PROC)   | SU 3 / SU 22        | Contributing Scenario   | Operational Conditions & typical RMMs  | TRACED - Exposure - g/m³ - no modifiers | TRACED - efficiency (%) | Duration ventilation effectiveness (%) | TRACED - concentration factor | TRACED - duration factor | TRACED - factor | Extra exposure modifier (optional) | Free text - comment to clarify additional modifier (optional) | Exposure - g/m³ - modified |  |
| 14                         | PROC 88 - Transfer of chemicals from/to vessels/ large containers at dedicated facilities                         | Professional - SU22 | Bulk transfers [CS14]   | Dedicated facility [CS81] Transfer from/pouring from containers [CS22]                 | 250.00                                  |                         |  |                               |                          |                 |                                    |   | 250                        |  |
| 15                         | PROC 9 - Transfer of chemicals from/to vessels/ dedicated facilities  | Professional - SU22 | Small package filling [CS7]   | Dedicated facility [CS81] Pouring from small containers [CS4]                          | 250.00                                  |                         |  |                               |                          |                 |                                    |   | 250                        |  |
| 16                         | PROC 10 - Roller application or brushing  | Professional - SU22 | Rolling, Brushing [CS51]  | Or: Equipment cleaning and maintenance [CS39] ; with local exhaust ventilation [CS109] | 500.00                                  | 80.00                   |  |                               |                          |                 |                                    |   | 100                        |  |
| 17                         | PROC 10 - Roller application or brushing  | Professional - SU22 | Rolling, Brushing [CS51]  | Or: Equipment cleaning and maintenance [CS39]  | 500.00                                  |                         |  | 5-25 %                        |                          |                 |                                    |   | 300                        |  |
| 18                         | PROC 10 - Roller application or brushing  | Professional - SU22 | Rolling, Brushing [CS51]  | Or: Equipment cleaning and maintenance [CS39]  | 500.00                                  |                         |  |                               | 1-4 hours                |                 |                                    |   | 300                        |  |
| 19                         | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24]   | with local exhaust ventilation [CS109]   | 1000.00                                 | 80.00                   |  |                               |                          |                 |                                    |   | 200                        |  |
| 20                         | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24]   |  | 1000.00                                 |                         | 50.00                                  | 5-25 %                        | 1-4 hours                |                 |                                    |   | 250                        |  |
| 21                         | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24]   |  | 1000.00                                 |                         |  |                               | 15 min-1 hour            |                 |                                    |   | 200                        |  |
| 22                         | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24]   |  | 1000.00                                 |                         |  |                               |                          | half mask       |                                    |   | 100                        |  |
| 23                         | PROC 13 - Treatment of articles by dipping and pouring  | Professional - SU22 | Dipping, immersion and pouring [CS4]  |  | 250.00                                  |                         |  |                               |                          |                 |                                    |   | 250                        |  |
| 24                         | PROC 14 - Production of preparations or articles by tableting, compression, extrusion or extrusion, pelletisation | Professional - SU22 | Production or preparation of articles by tableting, compression, extrusion or pelletisation [CS100] | with local exhaust ventilation [CS109]   | 500.00                                  | 80.00                   |  |                               |                          |                 |                                    |   | 100                        |  |
| 25                         | PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation              | Professional - SU22 | Production or preparation of articles by tableting, compression, extrusion or pelletisation [CS100] |  | 500.00                                  |                         |  |                               | 1-4 hours                |                 |                                    |   | 300                        |  |
| 26                         | PROC 15 - Use of laboratory reagents in small scale laboratories  | Professional - SU22 | Laboratory activities [CS36]  |  | 50.00                                   |                         |  |                               |                          |                 |                                    |   | 50                         |  |

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| Generic Exposure Scenario: |  | Professional Processes relevant for Acetone and Acetone containing products |  |                                       |  | Inhalation Exposure                                      |                        |  |                          |                     |                |                                    | 2010-08-23  |  |
|----------------------------|--|---|--|---------------------------------------|--|--|------------------------|--|--------------------------|---------------------|----------------|------------------------------------|---|--|
| Generic Exposure Scenario: |  | Professional Processes relevant for Acetone and Acetone containing products |  |                                       |  | Inhalation Exposure                                      |                        |  |                          |                     |                |                                    |   |  |
| No                         | Use Descriptor (PROCs)   | SU 3 / SU 22  | Contributing Scenario                                      | Operational Conditions & typical RfMs |  | 10A Predicted Exposure - g/m <sup>3</sup> - no modifiers | 10A LEL/efficiency (%) | Duration ventilation effectiveness (%) | 10A concentration factor | 10A duration factor | 10A RfC factor | Extra exposure modifier (optional) | Free fact - convert to daily additional modifier (optional) | Predicted Exposure - g/m <sup>3</sup> - modified |
| 27                         | PROC 19 - Hand-mixing with intimate contact (only PPE available) | Professional - SU22   | Hand application - fingerpaints, pastels, adhesives [CS72] |                                       |  | 500.00   |                        |  | 5-25 %                   |                     |                |                                    |   | 300  |
| 28                         | PROC 19 - Hand-mixing with intimate contact (only PPE available) | Professional - SU22   | Hand application - fingerpaints, pastels, adhesives [CS72] |                                       |  | 500.00   |                        |  |                          | 15 min-1 hour       |                |                                    |   | 100  |

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Professional Processes relevant for Acetone and Acetone containing products

CSR-Worker-Acebnr-prof \ Dermal Exposure

| Generic Exposure Scenario: |   |                     | Professional Processes relevant for Acetone and Acetone containing products     |   | Dermal Exposure                                      |  |                          |   |
|----------------------------|---|---------------------|---|---|--|--|--------------------------|---|
| No                         | Use Descriptor (PROCs)  | SU 3 / SU 22        | Contributing Scenario (closed systems) [CS15]                                   | Operational Conditions & typical RMIs (closed systems) [CS107]; Process sampling [CS2];                             | TMA Predicted Dermal exposure (mg/kg) - no modifiers | TMA Dermal exposure LEV reduction factor | TMA concentration factor | PPE factor  |
| 1                          | PROC 1 - Use in closed process, no likelihood of exposure                                     | Professional - SU22 | General exposures (closed systems) [CS15]                                       | Continuous process [CS54]; Process sampling [CS2];  | 0.34   |  |                          | Free hat - comment: to daily additional modifier (dermal) |
| 2                          | PROC 2 - Use in closed, continuous process with occasional exposure                           | Professional - SU22 | General exposures (closed systems) [CS15]                                       | Continuous process [CS54]; Process sampling [CS2];  | 1.37   |  |                          | Free hat - comment: to daily additional modifier (dermal) |
| 3                          | PROC 3 - Use in closed batch process (synthesis or formulation)                               | Professional - SU22 | General exposures (closed systems) [CS15]                                       | Batch process [CS56]; Process sampling [CS2];   | 0.34   |  |                          | Free hat - comment: to daily additional modifier (dermal) |
| 4                          | PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure            | Professional - SU22 | Process sampling [CS2]; (open systems) [CS108]                                  |   | 6.86   |  |                          | Free hat - comment: to daily additional modifier (dermal) |
| 5                          | PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact)        | Professional - SU22 | Mixing operations (open systems) [CS30]   | Batch process [CS56]; Process sampling [CS2]; with local exhaust ventilation [CS109]                                | 13.71  | 0.01                                     |                          | Free hat - comment: to daily additional modifier (dermal) |
| 6                          | PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact)        | Professional - SU22 | Mixing operations (open systems) [CS30]   | Batch process [CS56]; Process sampling [CS2];   | 13.71  |  |                          | Free hat - comment: to daily additional modifier (dermal) |
| 7                          | PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact)        | Professional - SU22 | Mixing operations (open systems) [CS30]   | Batch process [CS56]; Process sampling [CS2];   | 13.71  |  |                          | Free hat - comment: to daily additional modifier (dermal) |
| 8                          | PROC 6 - Calendaring operations   | Professional - SU22 | Calendaring (including Banburya) [CS64]; with local exhaust ventilation [CS109] |   | 27.43  | 0.05                                     |                          | Free hat - comment: to daily additional modifier (dermal) |
| 9                          | PROC 6 - Calendaring operations   | Professional - SU22 | Calendaring (including Banburya) [CS64]   |   | 27.43  |  |                          | Free hat - comment: to daily additional modifier (dermal) |
| 10                         | PROC 6 - Calendaring operations   | Professional - SU22 | Calendaring (including Banburya) [CS64]   |   | 27.43  |  |                          | Free hat - comment: to daily additional modifier (dermal) |
| 11                         | PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Professional - SU22 | Bulk transfers [CS14]   | Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22]; with local exhaust ventilation [CS109] | 13.71  | 0.01                                     |                          | Free hat - comment: to daily additional modifier (dermal) |
| 12                         | PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Professional - SU22 | Bulk transfers [CS14]   | Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22];  | 13.71  |  |                          | Free hat - comment: to daily additional modifier (dermal) |

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| CSR-Worker-Aceton-prof \ Dermal Exposure Professional Processes relevant for Acetone and Acetone containing products |   |                     |   |   |  |  |                          |            |                                    | 2010-08-23                               |
|--|---|---------------------|---|---|--|--|--------------------------|------------|------------------------------------|--|
| Generic Exposure Scenario:   |   |                     |   | Professional Processes relevant for Acetone and Acetone containing products           |  |  | Dermal Exposure          |            |                                    |  |
| No   | Use Descriptor (PROCs)  | SU 3 / SU 22        | Contributing Scenario   | Operational Conditions & typical RMMS   | TRM Predicted Dermal exposure (mg/gd) - no modifiers | TRM Dermal exposure LEV reduction factor | TRM concentration factor | PPE factor | extra exposure modifier (optional) | Final Dermal exposure (mg/gd) - modified |
| 13   | PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities                     | Professional - SU22 | Bulk transfers [CS14]   | Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22]           | 13.71  |  |                          |            |                                    | 13.71                                    |
| 14   | PROC 8b - Transfer of chemicals from/to vessels/ large containers at dedicated facilities                         | Professional - SU22 | Bulk transfers [CS14]   | Dedicated facility [CS81]; Transfer from/pouring from containers [CS22]               | 6.86   |  |                          |            |                                    | 6.86                                     |
| 15   | PROC 9 - Transfer of chemicals into small containers (dedicated filling line)                                     | Professional - SU22 | Small package filling [CS7]   | Dedicated facility [CS81]; Pouring from small containers [CS9]                        | 6.86   |  |                          |            |                                    | 6.86                                     |
| 16   | PROC 10 - Roller application or brushing  | Professional - SU22 | Rolling, Brushing [CS51]  | Or: Equipment cleaning and maintenance [CS39]; with local exhaust ventilation [CS109] | 27.43  | 0.050                                    |                          |            |                                    | 1.37                                     |
| 17   | PROC 10 - Roller application or brushing  | Professional - SU22 | Rolling, Brushing [CS51]  | Or: Equipment cleaning and maintenance [CS39]   | 27.43  |  | 5-25%                    |            |                                    | 16.46                                    |
| 18   | PROC 10 - Roller application or brushing  | Professional - SU22 | Rolling, Brushing [CS51]  | Or: Equipment cleaning and maintenance [CS39]   | 27.43  |  |                          |            |                                    | 27.43                                    |
| 19   | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24]   | with local exhaust ventilation [CS109]  | 107.14   | 0.02                                     |                          |            |                                    | 2.14                                     |
| 20   | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24]   |   | 107.14   |  | 5-25%                    |            |                                    | 64.28                                    |
| 21   | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24]   |   | 107.14   |  |                          |            |                                    | 107.14                                   |
| 22   | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24]   |   | 107.14   |  |                          |            |                                    | 107.14                                   |
| 23   | PROC 13 - Treatment of articles by dipping and pouring  | Professional - SU22 | Dipping, immersion and pouring [CS4]  |   | 13.71  |  |                          |            |                                    | 13.71                                    |
| 24   | PROC 14 - Production of preparations or articles by labelling, compression, extrusion or extrusion, pelletisation | Professional - SU22 | Production or preparation of articles by labelling, compression, extrusion or pelletisation [CS109] | with local exhaust ventilation [CS109]  | 3.43   | 0.10                                     |                          |            |                                    | 0.34                                     |



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Professional Processes relevant for Acetone and Acetone containing products

CSR-Worker-Acetone-prof | Dermal Exposure

| Generic Exposure Scenario: |  |                     | Professional Processes relevant for Acetone and Acetone containing products                     |                                       | Dermal Exposure                          |                          |            |                                    |  |
|----------------------------|--|---------------------|---|---------------------------------------|--|--------------------------|------------|------------------------------------|--|
| No                         | Use Descriptor (PROCs)   | SU 3 / SU 22        | Contributing Scenario   | Operational Conditions & typical RMMs | TNA Dermal exposure LEV reduction factor | TNA concentration factor | PPE factor | extra exposure modifier (optional) | Final LEV - correction to daily additional modifier (dermal) |
| 25                         | PROC 14 - Production of preparations or articles by labelling, compression, extrusion or pelleting [CS100] | Professional - SU22 | Production or preparation of articles by labelling, compression, extrusion or pelleting [CS100] |                                       | 3.43                                     |                          |            |                                    | 3.43   |
| 26                         | PROC 15 - Use of laboratory reagents in small scale laboratories   | Professional - SU22 | Laboratory activities [CS36]  |                                       | 0.34                                     |                          |            |                                    | 0.34   |
| 27                         | PROC 19 - Hand-mixing with intimate contact (only PPE available)   | Professional - SU22 | Hand application - fingerpastes, pastels, adhesives [CS72]                                      |                                       | 141.43                                   | 5.25%                    | gloves     |                                    | 16.97  |
| 28                         | PROC 19 - Hand-mixing with intimate contact (only PPE available)   | Professional - SU22 | Hand application - fingerpastes, pastels, adhesives [CS72]                                      |                                       | 141.43                                   |                          |            |                                    | 141.43   |

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Professional Processes relevant for Acetone and Acetone containing products

CSR-Worker-Acetone-prof \ RCR

| Generic Exposure Scenario: |  |                     | Professional Processes relevant for Acetone and Acetone containing products     |   | Risk Characterization |              |                  |
|----------------------------|--|---------------------|---|---|-----------------------|--------------|------------------|
| No                         | Use Descriptor (PROCs)   | SU 3 / SU 22        | Contributing Scenario   | Operational Conditions & typical RMIs   | RCR (Inhalation)      | RCR (dermal) | RCR (all routes) |
| 1                          | PROC 1 - Use in closed process, no likelihood of exposure                                    | Professional - SU22 | General exposures (closed systems) [CS15].                                      | (closed systems) [CS107]; Process sampling [CS2]. ;   | 0.00002               | 0.002        | 0.002            |
| 2                          | PROC 2 - Use in closed, continuous process with occasional controlled exposure               | Professional - SU22 | General exposures (closed systems) [CS15].                                      | Continuous process [CS54]. ; Process sampling [CS2].  | 0.10                  | 0.01         | 0.11             |
| 3                          | PROC 3 - Use in closed batch process (synthesis or formulation)                              | Professional - SU22 | General exposures (closed systems) [CS15].                                      | Batch process [CS55]. Process sampling [CS2].   | 0.20                  | 0.002        | 0.20             |
| 4                          | PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises    | Professional - SU22 | Process sampling [CS2]. ; (open systems) [CS108]                                |   | 0.50                  | 0.04         | 0.54             |
| 5                          | PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)        | Professional - SU22 | Mixing operations (open systems) [CS30].  | Batch process [CS55]. ; Process sampling [CS2]. ; with local exhaust ventilation [CS109]                              | 0.20                  | 0.00         | 0.20             |
| 6                          | PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)        | Professional - SU22 | Mixing operations (open systems) [CS30].  | Batch process [CS55]. Process sampling [CS2].   | 0.70                  | 0.07         | 0.77             |
| 7                          | PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)        | Professional - SU22 | Mixing operations (open systems) [CS30].  | Batch process [CS55]. Process sampling [CS2].   | 0.60                  | 0.07         | 0.67             |
| 8                          | PROC 6 -Calendering operations   | Professional - SU22 | Calendering (including Banburys) [CS64]; with local exhaust ventilation [CS109] |   | 0.84                  | 0.15         | 0.99             |
| 9                          | PROC 6 -Calendering operations   | Professional - SU22 | Calendering (including Banburys) [CS64]   |   | 0.84                  | 0.15         | 0.99             |
| 10                         | PROC 6 -Calendering operations   | Professional - SU22 | Calendering (including Banburys) [CS64]   |   | 0.72                  | 0.15         | 0.87             |
| 11                         | PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Professional - SU22 | Bulk transfers [CS14].  | Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22]. ; with local exhaust ventilation [CS109] | 0.20                  | 0.001        | 0.20             |

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CSR-Worker-Acetone-prof \ RCR Professional Processes relevant for Acetone and Acetone containing products

| Generic Exposure Scenario: |   |                     | Professional Processes relevant for Acetone and Acetone containing products |   | Risk Characterization |              |                  |
|----------------------------|---|---------------------|---|---|-----------------------|--------------|------------------|
| No                         | Use Descriptor (PROCs)  | SU 3 / SU 22        | Contributing Scenario   | Operational Conditions & typical RMIs   | RCR (inhalation)      | RCR (dermal) | RCR (all routes) |
| 12                         | PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Professional - SU22 | Bulk transfers [CS14].  | Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].            | 0.70                  | 0.07         | 0.77             |
| 13                         | PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities | Professional - SU22 | Bulk transfers [CS14].  | Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].            | 0.60                  | 0.07         | 0.67             |
| 14                         | PROC 8b - Transfer of chemicals from/to vessels/ large containers at dedicated facilities     | Professional - SU22 | Bulk transfers [CS14].  | Dedicated facility [CS81]; Transfer from/pouring from containers [CS22].                | 0.50                  | 0.04         | 0.54             |
| 15                         | PROC 9 - Transfer of chemicals into small containers (dedicated filling line)                 | Professional - SU22 | Small package filling [CS7].  | Dedicated facility [CS81]; Pouring from small containers [CS9].                         | 0.50                  | 0.04         | 0.54             |
| 16                         | PROC 10 - Roller application or brushing  | Professional - SU22 | Rolling, Brushing [CS51].   | Or: Equipment cleaning and maintenance [CS39]; ; with local exhaust ventilation [CS109] | 0.20                  | 0.007        | 0.21             |
| 17                         | PROC 10 - Roller application or brushing  | Professional - SU22 | Rolling, Brushing [CS51].   | Or: Equipment cleaning and maintenance [CS39].  | 0.60                  | 0.09         | 0.69             |
| 18                         | PROC 10 - Roller application or brushing  | Professional - SU22 | Rolling, Brushing [CS51].   | Or: Equipment cleaning and maintenance [CS39].  | 0.60                  | 0.15         | 0.75             |
| 19                         | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24].                              | with local exhaust ventilation [CS109]  | 0.40                  | 0.01         | 0.41             |
| 20                         | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24].                              |   | 0.50                  | 0.35         | 0.85             |
| 21                         | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24].                              |   | 0.40                  | 0.58         | 0.98             |
| 22                         | PROC 11 - Non industrial spraying   | Professional - SU22 | Spraying/fogging by manual application [CS24].                              |   | 0.20                  | 0.58         | 0.78             |

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Professional Processes relevant for Acetone and Acetone containing products

CSR-Worker-Acetone-prof \ RCR

| Generic Exposure Scenario: |   |                     | Professional Processes relevant for Acetone and Acetone containing products                          |  | Risk Characterization |              |                  |
|----------------------------|---|---------------------|--|--|-----------------------|--------------|------------------|
| No                         | Use Descriptor (PROCs)  | SU 3 / SU 22        | Contributing Scenario  | Operational Conditions & typical RMMs  | RCR (inhalation)      | RCR (dermal) | RCR (all routes) |
| 23                         | PROC 13 - Treatment of articles by dipping and pouring  | Professional - SU22 | Dipping, immersion and pouring [CS4].  |  | 0.50                  | 0.07         | 0.57             |
| 24                         | PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pellettisation | Professional - SU22 | Production or preparation of articles by tableting, compression, extrusion or pellettisation [CS100] | with local exhaust ventilation [CS109] | 0.20                  | 0.002        | 0.20             |
| 25                         | PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pellettisation | Professional - SU22 | Production or preparation of articles by tableting, compression, extrusion or pellettisation [CS100] |  | 0.60                  | 0.02         | 0.62             |
| 26                         | PROC 15 - Use of laboratory reagents in small scale laboratories                                      | Professional - SU22 | Laboratory activities [CS36].  |  | 0.10                  | 0.002        | 0.10             |
| 27                         | PROC 19 - Hand-mixing with intimate contact (only PPE available                                       | Professional - SU22 | Hand application - fingerpaints, pastels, adhesives [CS72]   |  | 0.60                  | 0.09         | 0.69             |
| 28                         | PROC 19 - Hand-mixing with intimate contact (only PPE available                                       | Professional - SU22 | Hand application - fingerpaints, pastels, adhesives [CS72]   |  | 0.20                  | 0.76         | 0.96             |

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### Acetone - Consumer

2010-08-23

#### Identified Consumer Generic Exposure Scenarios (GESs) of Acetone

| GES No.<br>EC No.<br>CAS No. | Subsector                            | Main SU                  | Description   | PC   |
|------------------------------|--------------------------------------|--------------------------|---|--|
| 1                            | Uses in Coatings                     | All Consumer Uses (SU21) | Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning. | PC1, PC4, PC5, PC9, PC10, PC15, PC24, PC31 |
| 2                            | Use in Cleaning Agents               | All Consumer Uses (SU21) | Covers general exposures to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products.                               | PC3, PC4, PC9, PC24, PC32, PC 35, PC38     |
| 3                            | De-icing and anti-icing applications | All Consumer Uses (SU21) | De-icing of vehicles and similar equipment by spraying  | PC4  |

#### Identified Consumer - PCs & Market Sector - PCs

| PC   | Acetone  |           |          | PC type       |
|------|----------|-----------|----------|---------------|
|      | Coatings | Cleanings | De-icing |               |
| PC1  | x        |           |          | Consumer      |
| PC3  |          | x         |          | Consumer      |
| PC4  | x        | x         | x        | Market Sector |
| PC9  | x        | x         |          | Consumer      |
| PC15 | x        |           |          | Market Sector |
| PC24 | x        | x         |          | Consumer      |
| PC31 | x        |           |          | Consumer      |
| PC32 |          | x         |          | Market Sector |
| PC35 |          | x         |          | Consumer      |
| PC38 |          | x         |          | Market Sector |

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Main Sector of Use: All Consumer Uses

CSR-Consumer-Acetone

| Section 1   |           | Exposure Scenario Title  |
|---|-----------|--|
| Title   |           | <b>GES USES</b>  |
| Sector of Use (SU code)   |           | 21   |
| Use Descriptor (PC codes)   |           | PC LISTS   |
| Processes, tasks, activities covered  |           | DESCRIPTIONS   |
| Environmental Release Category  |           |  |
| Specific Environmental Release Category   |           |  |
| Section 2   |           | Operational conditions and risk management measures  |
| <i>Field for additional statements to explain scenario if required - pending better understanding from ECHA</i> |           |  |
| Section 2.1   |           | Control of consumer exposure   |
| <i>Product characteristics</i>  |           |  |
| Physical form of product  |           | liquid   |
| Vapour pressure   |           | 24000  |
| Concentration of substance in product   |           | Unless otherwise stated, cover concentrations up to 100% [ConsOC1]   |
| Amounts used  |           | Unless otherwise stated, covers use amounts up to 37500g [ConsOC2]; covers skin contact area up to 6600cm <sup>2</sup> [ConsOC5]   |
| Frequency and duration of use/exposure  |           | Unless otherwise stated, covers use frequency up to 4 times per day [ConsOC4]; covers exposure up to 8 hours per event [ConsOC14]  |
| Other Operational Conditions affecting exposure   |           | Unless otherwise stated assumes use at ambient temperatures [ConsOC15]; assumes use in a 20 m <sup>3</sup> room [ConsOC11]; assumes use with typical ventilation [ConsOC8].  |
| Section 2.1.1   |           | Product categories   |
| PC1:Adhesives, sealants–Glues, hobby use  | OC        | Unless otherwise stated, covers concentrations up to 30% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 35.73 cm <sup>2</sup> [ConsOC5]; for each use event, covers use amounts up to 9g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m <sup>3</sup> [ConsOC11]; for each use event, covers exposure up to 4.00hr/event[ConsOC14];  |
| PC1:Adhesives, sealants–Glues DIY-use (carpet glue, tile glue, wood parquet glue)                               | RMM<br>OC | No specific RMMS identified beyond those OCs stated<br>Unless otherwise stated, covers concentrations up to 30% [ConsOC1]; covers use up to 1 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 110.00 cm <sup>2</sup> [ConsOC5]; for each use event, covers use amounts up to 6390g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m <sup>3</sup> [ConsOC11]; for each use event, covers exposure up to 6.00hr/event[ConsOC14]; |
| PC1:Adhesives, sealants–Glue from spray   | RMM<br>OC | No specific RMMS identified beyond those OCs stated<br>Unless otherwise stated, covers concentrations up to 30% [ConsOC1]; covers use up to 6 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 35.73 cm <sup>2</sup> [ConsOC5]; for each use event, covers use amounts up to 85.05g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m <sup>3</sup> [ConsOC11]; for each use event, covers exposure up to 4.00hr/event[ConsOC14]; |
|   | RMM       | No specific RMMS identified beyond those OCs stated  |

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| Section 2.1.1  |     | Product categories   |
|--|-----|--|
| PC1:Adhesives, sealants--Sealants  | OC  | Unless otherwise stated, covers concentrations up to 30% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 35.73 cm2 [ConsOC5]; for each use event, covers use amounts up to 75g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 1.00hr/event[ConsOC14];                      |
| PC3:Air care products--Air care, instant action (aerosol sprays)                                 | RMM | No specific RMMs identified beyond those OCs stated  |
|  | OC  | Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 4 times/day of use[ConsOC4]; for each use event, covers use amounts up to 0.1g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 0.25hr/event[ConsOC14];   |
| PC3:Air care products--Air care, continuous action (solid and liquid)                            | RMM | No specific RMMs identified beyond those OCs stated  |
|  | OC  | Unless otherwise stated, covers concentrations up to 10% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 35.70 cm2 [ConsOC5]; for each use event, covers use amounts up to 0.48g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 8.00hr/event[ConsOC14];                    |
| PC4_n:Anti-freeze and de-icing products--Washing car window                                      | RMM | No specific RMMs identified beyond those OCs stated  |
|  | OC  | Unless otherwise stated, covers concentrations up to 1% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; for each use event, covers use amounts up to 0.5g [ConsOC2]; Covers use in a one car garage (34m3) under typical ventilation [ConsOC10]; covers use in room size of 34m3[ConsOC11]; for each use event, covers exposure up to 0.02hr/event[ConsOC14];  |
| PC4_n:Anti-freeze and de-icing products--Pouring into radiator                                   | RMM | No specific RMMs identified beyond those OCs stated  |
|  | OC  | Unless otherwise stated, covers concentrations up to 10% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 428.00 cm2 [ConsOC5]; for each use event, covers use amounts up to 2000g [ConsOC2]; Covers use in a one car garage (34m3) under typical ventilation [ConsOC10]; covers use in room size of 34m3[ConsOC11]; for each use event, covers exposure up to 0.17hr/event[ConsOC14]; |
| PC4_n:Anti-freeze and de-icing products--Lock de-icer  | RMM | No specific RMMs identified beyond those OCs stated  |
|  | OC  | Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 214.40 cm2 [ConsOC5]; for each use event, covers use amounts up to 4g [ConsOC2]; Covers use in a one car garage (34m3) under typical ventilation [ConsOC10]; covers use in room size of 34m3[ConsOC11]; for each use event, covers exposure up to 0.25hr/event[ConsOC14];    |
| PC9a:Coatings and paints, fillers putties, thinners--Waterborne latex wall paint                 | RMM | No specific RMMs identified beyond those OCs stated  |
|  | OC  | Unless otherwise stated, covers concentrations up to 1.5% [ConsOC1]; covers use up to 4 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 428.75 cm2 [ConsOC5]; for each use event, covers use amounts up to 2760g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 2.20hr/event[ConsOC14];                    |
| PC9a:Coatings and paints, fillers putties, thinners--Solvent rich, high solid, water borne paint | RMM | No specific RMMs identified beyond those OCs stated  |
|  | OC  | Unless otherwise stated, covers concentrations up to 27.5% [ConsOC1]; covers use up to 6 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 428.75 cm2 [ConsOC5]; for each use event, covers use amounts up to 744g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 2.20hr/event[ConsOC14];                    |
|  | RMM | No specific RMMs identified beyond those OCs stated  |

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|--|-----|---|
| PC9a: Coatings and paints, fillers putties, thinners-- Aerosol spray can                                       | OC  | Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 2 days/year [ConsOC3]; covers use up to 1 time/on day of use [ConsOC4]; for each use event, covers use amounts up to 215g [ConsOC2]; Covers use in a one car garage (34m3) under typical ventilation [ConsOC10]; covers use in room size of 34m3 [ConsOC11]; for each use event, covers exposure up to 0.33hr/event [ConsOC14];                                      |
| PC9a: Coatings and paints, fillers putties, thinners-- Removers (paint-, glue-, wall paper-, sealant- remover) | RMM | No specific RMMs identified beyond those OCs stated   |
| PC9b: Fillers, putties, plasters, modelling clay-- Fillers and putty   | OC  | Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 3 days/year [ConsOC3]; covers use up to 1 time/on day of use [ConsOC4]; covers skin contact area up to 857.50 cm2 [ConsOC5]; for each use event, covers use amounts up to 491g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3 [ConsOC11]; for each use event, covers exposure up to 2.00hr/event [ConsOC14];   |
| PC9b: Fillers, putties, plasters, modelling clay-- Plasters and floor equalizers                               | RMM | No specific RMMs identified beyond those OCs stated   |
| PC9b: Fillers, putties, plasters, modelling clay-- Modelling clay  | OC  | Unless otherwise stated, covers concentrations up to 2% [ConsOC1]; covers use up to 12 days/year [ConsOC3]; covers use up to 1 time/on day of use [ConsOC4]; covers skin contact area up to 857.50 cm2 [ConsOC5]; for each use event, covers use amounts up to 13800g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3 [ConsOC11]; for each use event, covers exposure up to 2.00hr/event [ConsOC14]; |
| PC9c: Finger paints --Finger paints  | RMM | No specific RMMs identified beyond those OCs stated   |
| PC15_n: Non-metal surface treatment products-- Solvent rich, high solid, water borne paint                     | OC  | Unless otherwise stated, covers concentrations up to 1% [ConsOC1]; covers use up to 365 days/year [ConsOC3]; covers use up to 1 time/on day of use [ConsOC4]; covers skin contact area up to 254.40 cm2 [ConsOC5]; for each use event, assumes swallowed amount of 1.35g [ConsOC13];  |
| PC15_n: Non-metal surface treatment products-- Aerosol spray can   | RMM | Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 2 days/year [ConsOC3]; covers use up to 1 time/on day of use [ConsOC4]; for each use event, covers use amounts up to 215g [ConsOC2]; Covers use in a one car garage (34m3) under typical ventilation [ConsOC10]; covers use in room size of 34m3 [ConsOC11]; for each use event, covers exposure up to 0.33hr/event [ConsOC14];                                      |
| PC15_n: Non-metal surface treatment products-- Removers (paint-, glue-, wall paper-, sealant- remover)         | OC  | No specific RMMs identified beyond those OCs stated   |
|  | RMM | Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 3 days/year [ConsOC3]; covers use up to 1 time/on day of use [ConsOC4]; covers skin contact area up to 857.50 cm2 [ConsOC5]; for each use event, covers use amounts up to 491g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3 [ConsOC11]; for each use event, covers exposure up to 2.00hr/event [ConsOC14];   |
|  | RMM | No specific RMMs identified beyond those OCs stated   |

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| Section 2.1.1   |           | Product categories  |
|---|-----------|---|
| PC24: Lubricants, greases, and release products--Liquids  | OC        | Unless otherwise stated, covers concentrations up to 100% [ConsOC1]; covers use up to 4 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 488.00 cm2 [ConsOC5]; for each use event, covers use amounts up to 2200g [ConsOC2]; Covers use in a one car garage (34m3) under typical ventilation [ConsOC10]; covers use in room size of 34m3[ConsOC11]; for each use event, covers exposure up to 0.17hr/event[ConsOC14];                                     |
| PC24: Lubricants, greases, and release products--Pastes   | RMM<br>OC | Unless otherwise stated, covers concentrations up to 20% [ConsOC1]; covers use up to 10 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 488.00 cm2 [ConsOC5]; for each use event, covers use amounts up to 34g [ConsOC2]; covers use in room size of m3[ConsOC11];   |
| PC24: Lubricants, greases, and release products--Sprays   | RMM<br>OC | No specific RMMs identified beyond those OCs stated<br>Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 6 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 428.75 cm2 [ConsOC5]; for each use event, covers use amounts up to 73g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 0.17hr/event[ConsOC14];   |
| PC31: Polishes and wax blends--Polishes, wax / cream (floor, furniture, shoes)  | RMM<br>OC | No specific RMMs identified beyond those OCs stated<br>Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 29 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 430.00 cm2 [ConsOC5]; for each use event, covers use amounts up to 142g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 1.23hr/event[ConsOC14]; |
| PC31: Polishes and wax blends--Polishes, spray (furniture, shoes)   | RMM<br>OC | No specific RMMs identified beyond those OCs stated<br>Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 8 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 430.00 cm2 [ConsOC5]; for each use event, covers use amounts up to 35g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 0.33hr/event[ConsOC14];   |
| PC35: Washing and cleaning products (including solvent based products)--Laundry and dish washing products   | RMM<br>OC | No specific RMMs identified beyond those OCs stated<br>Unless otherwise stated, covers concentrations up to 5% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 857.50 cm2 [ConsOC5]; for each use event, covers use amounts up to 15g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 0.50hr/event[ConsOC14];  |
| PC35: Washing and cleaning products (including solvent based products)--Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners ) | RMM<br>OC | No specific RMMs identified beyond those OCs stated<br>Unless otherwise stated, covers concentrations up to 5% [ConsOC1]; covers use up to 128 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 857.50 cm2 [ConsOC5]; for each use event, covers use amounts up to 27g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 0.33hr/event[ConsOC14];  |
| PC35: Washing and cleaning products (including solvent based products)--Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)  | RMM<br>OC | No specific RMMs identified beyond those OCs stated<br>Unless otherwise stated, covers concentrations up to 15% [ConsOC1]; covers use up to 128 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 428.00 cm2 [ConsOC5]; for each use event, covers use amounts up to 35g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 0.17hr/event[ConsOC14]; |
|   | RMM       | No specific RMMs identified beyond those OCs stated   |

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| Product categories  |     |
|---|-----|
| Section 2.1.1<br>PC38 n: Welding and soldering products, flux products--NOTE: n_assessment not in TRA   | OC  |
| Unless otherwise stated, covers concentrations up to 20% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; for each use event, covers use amounts up to 12g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m <sup>3</sup> [ConsOC11]; for each use event, covers exposure up to 1.00hr/event[ConsOC14];  |     |
| Section 3   | RMM |
| No specific RMMs identified beyond those OCs stated   |     |
| Exposure Estimation ('Flexible' heading)  |     |
| ECHA Note in draft template: Exposure estimation and risk characterisation ratios (for all routes of exposure for consumers and all compartments for environment) resulting from the conditions described under Sections 2.1 and 2.2), and the substance properties; make reference to the exposure assessment tool applied. Note: Detail could be confusing for customers. Also may be an extensive list. Proposal to include a weblink from where these data can be retrieved (a component of GES development). |     |
| 3.1. Health   |     |
| Health sub-headings (design as phrases)   |     |
| 3.2. Environment  |     |
| Environment sub-headings (design as phrases)  |     |
| Section 4   |     |
| Guidance how the DU can evaluate whether he operates within the conditions set in the exposure scenario - scaling tools. Standard phrases   |     |
| 4.1. Health   |     |
| Health sub-headings (design as phrases)   |     |
| 4.2. Environment  |     |
| Environment sub-headings (design as phrases)  |     |
| Utilize TRA, TRA+ and/or CONSEXPO exposure model  |     |
| Standard phrases  |     |

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