

Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Enzyme-linked immunosorbent assay kit for research use only

Product Code:

Application: For research use only

Company: Wuhan Fine Biotech Co., Ltd

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SECTION2 HAZARDS IDENTIFICATION

Component Items	Physical form	Hazardous Ingredient	Concentration	CAS No.
Biotinylated Detection Ab/Ag	Odorless and colorless, liquid	Proclin 300	0.05%	96118-96-6
Assay diluent	Odorless and colorless, liquid	Proclin 300	0.05%	96118-96-6
HRP Conjugate	Odorless and colorless, liquid	Proclin 300	0.05%	96118-96-6
Standard	Odorless and white/faint yellow Clear powder/ solid	Proclin 300	0.05%	96118-96-6
Substrate	Odorless and colorless, liquid	H2O2	0.1%	7722-84-1
Stop solution	Slight pungent and colorless, liquid	Sulfuric acid (H ₂ SO ₄)	2N	7664-93-9

2. HAZARDS IDENTIFICATION

According to GHS

Stop Solution contains Sulfuric Acid: Skin Irrit. Class 2

Eye Irrit. Class 2

Signal Word: WARNING

Hazard statements: Causes skin irritation. Causes serious eye irritation.

Precautionary statements: Wash hands thoroughly after handling. Wear protective gloves, clothing and eye and face protection.

Response:

IF ON SKIN (or hair): Immediately remove contaminated clothing and wash before re-use. Wash skin immediately with soap and water. Get medical attention if irritation persists after washing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

Classification according to Directive 67/548/EEC: Irritating to eyes and skin.

Hazard Symbol / R-Phrase / S-Phrase: Xi, Irritant / R36/38, Irritating to eyes and skin. / S26, In case of contact with eyes, rinse immediately with plenty of water and see medical advice.

Other hazards: NONE

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	% Concentration	EINECS#
7732-18-5	Water	99.04 %	231-791-2
7647-14-5	Sodium chloride	0.8%	231-598-3
7558-79-4	Disodium hydrogenorthophosphate	0.12%	231-448-7
7447-40-7	Potassium chloride	0.02%	231-211-8
7778-77-0	Potassium dihydrogen orthophosphate	0.02%	231-913-4
9005-64-5	Tween20	0.05%	500-018-3
9048-46-8	BSA	0.2%	--
96118-96-6	Proclin 300	0.05%	--
7664-93-9	Sulfuric acid (H ₂ SO ₄)	2%	231-639-5
7722-84-1	H ₂ O ₂	0.1%	231-765-0
77-92-9	Citric acid	0.2%	201-069-1
54827-17-7	3,3',5,5'-tetramethylbenzidine	0.1%	259-364-6

4. FIRST AID MEASURES

General advice: If symptoms persist, call a physician.

- ☐ IF IN EYES: Rinse thoroughly with water for at least 15 minutes and immediately consult a physician.
- ☐ IF ON SKIN (or hair): Immediately take off contaminated clothing or shoes. Wash with plenty of soap and water. Consult a physician.
- ☐ IF INHALED: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- ☐ IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing agents: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- ☐ Hazards from the substance or mixture: In case of fire, toxic and corrosive gases may be formed
- Special precautions for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Procedure of Personal Precaution:

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

Methods for Cleaning up:

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash

spill site after material pickup is complete.

Environmental Precautions:

Do not let product entry drains.

7. HANDLING AND STORAGE

Advice on safe handling: Avoid inhalation of vapour or mist. Use normal measures for preventive fire protection

Conditions for safe storage: Store in a cool, dry place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Showers /Eyewash stations /Ventilation systems

Personal protective equipment

Eye/face protection: Tightly fitting safety goggles. Face-shield.

Skin and body protection: No special protective equipment required.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless transparent liquid

Odor: Weak odor

Initial Boiling: 100°C

Flash point: >96°C

(closed cup)/ °C:

pH vALUE: 7.5(25°C,50.0g/L)

Solubility: Miscible in water

Density/Relative: $1.008 \times 10^3 \text{ kg/m}^3$ (20.0°C \pm 0.1°C

Density Viscosity: 1.074mm²/s(20.00°C \pm 0.02°C,kinematic viscosity)

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Incompatible products: Most metals, oxidizers, reducers, bases, metal carbonates, cyanides, sulphides, carbides, oxides, metal acetylides, hydrides, halogens, organic or combustible materials, perchlorates, acetonitrile, permanganates, alcohols, picrates.

Conditions to avoid: Bases, Halides, Metals, Alkalis, Acetonitrile

Hazardous decomposition products: Products formed under fire conditions: Oxides of Sulphur, Hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Sodium chloride: Rat oral LD₅₀:3000mg/kg

Rat inhalation LC₅₀: >42000mg/m³/1H
Rabbit skin LD₅₀: >10000mg/kg
Sodium dihydrogen orthophosphate: Rat Oral LD₅₀: 17000mg/kg
Potassium chloride: Rat Oral LD₅₀: 2600mg/kg
Potassium dihydrogen orthophosphate: Rabbit skin LD₅₀: >4640mg/kg
Skin corrosion: No data available
Serious eye damage: No data available

12. ECOLOGICAL INFORMATION

Toxicity: The environmental impact of this product has not been fully investigated.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Dispose of waste in accordance to applicable national, regional, or local regulations. Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Contaminated packaging

Dispose in the same manner as unused product.

14. TRANSPORT INFORMATION

RID/ADR: Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA: Non-Hazardous for Air Transport.

IMO: Non-Hazardous for Sea Transport.

15. REGULATORY INFORMATION

This material safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 and its amendments.

16. OTHER INFORMATION

Other information:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS