

**SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:**

Sodium 3-mercapto-1-propanesulfonate

**Synonyms:**

MPS

YS

MPS-90

3-Mercapto-1-propanesulfonic acid sodium salt

**CAS Number:**

17636-10-1

**EC number:**

241-620-3

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Basic Intermediates, Laboratory chemicals, Synthesis of substances

Not for food or drug use, for laboratory use only.

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

TAIWAN HOPAX CHEMS. MFG. CO., LTD

No. 28 Huadong Rd., Daliao Dist., Kaohsiung City 831134

TAIWAN-ROC

**Further information obtainable from:**

samantha@hopax.com.tw

**1.4 Emergency telephone number:**

+886-7-7887600 / +886-7-7872892 Ext 314

**SECTION 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Skin corrosion/irritation (Category 2), H315

Serious eye damage/eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

**Hazard pictograms****GHS07****Signal word**

Warning

**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**Precautionary statements**

**Prevention**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response**

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

**Storage**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**Disposal**

P501 Dispose of contents/ container to an approved waste disposal plant.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** No data available.  
**vPvB:** No data available.

**SECTION 3. Composition / Information on ingredients**

**3.1 Chemical characterisation: Substances**

**Chemical Abstract Service No.(CAS No.) :** 17636-10-1

**Identification number(s)**

**EC number:** 241-620-3

**The hazardous ingredient (%of the content) :**

Component	CAS No.	Concentration
Sodium 3-mercapto-1-propanesulfonate/MPS	17636-10-1	94~96 %
3-S-Isothiuronium-propylsulfonate/UPS	21668-81-5	2~3%
Bis- (3-sulfopropyl) disulfide, disodium salt/SPS	27206-35-5	1~3%
Water/Moisture	7732-18-5	≤1%

**SECTION 4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General advice**

Consult a physician. Show this material safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5. FIRE FIGHTING MEASURES**

**5.1 Extinguishing media**

**Suitable extinguishing agents:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides  
Sulfur oxides  
Sodium oxides

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

No data available

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**6.2 Environmental precautions:**

Do not let product enter drains.

**6.3 Methods and material for containment and cleaning up:**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

**SECTION 7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

**Advice on safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

**Advice on protection against fire and explosion**

Provide appropriate exhaust ventilation at places where dust is formed.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities****Storage conditions**

Store in original, properly-sealed container in ambient conditions for temperature and humidity.

Avoid exposure of material to direct sunlight. Isolate from any source of heat or ignition.

**Storage class**

Storage class (TRGS 510): 11: Combustible Solids

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Additional information about design of technical facilities:** No further data; see item 7.

**8.1 Control parameters****Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment****Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which

differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection**

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains.

**SECTION 9. PHYSICAL/CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

**General Information**

Appearance:	
Form:	Solid Powder
Colour:	White
Odour:	No data available
Odour threshold:	No data available.
pH-value:	No data available.
Change in condition	
Melting point/freezing point:	220 °C (428 °F) - dec.
Initial boiling point and boiling range:	No data available
Flash point:	71 °C (160 °F) - closed cup
Flammability (solid, gas):	No data available
Decomposition temperature:	No data available
Auto-ignition temperature:	No data available
Explosive properties:	No data available
Explosion limits:	
Lower:	No data available
Upper:	No data available
Vapour pressure:	No data available
Density:	
Relative density:	No data available
Vapour density:	No data available
Evaporation rate	No data available
Solubility in / Miscibility with water:	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity:	No data available
Dynamic:	No data available
Kinematic:	No data available
Oxidizing properties	No data available

**9.2 Other information:** No data available

**SECTION 10. STABILITY AND REACTIVITY****10.1 Reactivity**

No further relevant information available.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No dangerous reactions known

**10.4 Conditions to avoid**

No further relevant information available.

**10.5 Incompatible materials:**

Strong oxidizing agents.

**10.6 Hazardous decomposition products:**

In the event of fire: see section 5

**SECTION 11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

Oral: No data available

Inhalation: No data available

Dermal: No data available

LD50 Subcutaneous - Mouse - 1,500 mg/kg

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Additional Information**

RTECS: TZ6655600

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 12. ECOLOGICAL INFORMATION****12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Endocrine disrupting properties**

No data available

**12.7 Other adverse effects**

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product**

The chemical must be disposed or recycled in accordance with Waste Disposal Act. See [www.epa.gov.tw](http://www.epa.gov.tw) for the information of chemical waste disposal companies and their contacts. Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

Not regulated as a dangerous good

UN/ID No. : Not applicable

Proper shipping name : Not applicable

Class : Not applicable

Subsidiary risk : Not applicable

Packing group : Not applicable

Labels : Not applicable

Packing instruction (cargo aircraft): Not applicable

Packing instruction (passenger aircraft): Not applicable

**IMDG-Code**

Not regulated as a dangerous good

UN number : Not applicable

Proper shipping name : Not applicable

Class : Not applicable

Subsidiary risk : Not applicable

Packing group : Not applicable

Labels : Not applicable

EmS Code : Not applicable  
Marine pollutant : no  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable for product as supplied.  
**Special precautions for user**  
Remarks : Not classified as dangerous in the meaning of transport regulations.

## SECTION 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations specific for the product in question:

#### **Inventory of Existing Chemical Substances in China (IECSC)**

Substance is listed.

#### **Chemical Substance Inventory in Taiwan, China (TCSI)**

Substance is listed.

#### **Japan Existing and New Chemical Substances Inventory (ENCS)**

Substance is listed.

#### **Korea Existing Chemicals List (KECL)**

Substance is listed.

#### **Korea Priority Existing Chemicals List (PEC)**

Substance is not listed.

#### **TSCA Chemical Substance Inventory**

Substance is listed.

#### **EU EINECS/ELINCS/NLP**

Substance is listed.

#### **New Zealand Inventory of Chemicals (NZIoC)**

Substance is not listed.

#### **Philippine Inventory of Chemicals and Chemical Substances (PICCS)**

Substance is listed.

#### **Australian Inventory of Industrial Chemicals (AIIC)**

Substance is listed.

#### **Canada Domestic Substances List (DSL)**

Substance is listed.

#### **Canada Non-domestic Substances List (NDSL)**

Substance is not listed.

#### **Thailand Existing Chemicals Inventory (TECI)**

Substance is listed

### 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## SECTION 16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product

with regard to appropriate safety precautions.	
<b>Date that the SDS was prepared:</b>	2026/01/15
<b>Version:</b>	6.4

**Disclaimer**

This SDS was prepared sincerely on the basis of the information we could obtain. However, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information, but also the laws and regulations of the organization, area and country where the product is to be used, which shall be given the first priority.

The product is supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added hereafter. If the product is to be used beyond the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The product must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set upon each user's own responsibility.

**End of Safety Data Sheet**