

## Material Safety Data Sheet

### Section 1-Chemical Product and Company Identification

Chemical Name: 1,3 Propane Sultone

Synonyms: 3-HYDROXY-1-PROPANESULFONIC ACID GAMMA-SULTONE,

3-HYDROXY-1-PROPANESULFONIC ACID SULTONE,

3-HYDROXY-1-PROPANE SULFONIC SULTONE,

3-HYDROXYPROPANESULFONIC ACID GAMMA-SULTONE,

3-HYDROXYPROPANESULFONIC ACID SULTONE,

Molecular Formula:  $C_3H_6O_3S$

CAS #: 1120-71-4

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### Section 2-Composition and Information on Ingredients

CAS #	Chemical Name	Purity (%)	EINECS #
1120-71-4	1,3 Propane Sultone	99.96% Min.	214-317-9

### Section 3-Hazards Identification

GHS Classification

Physical Hazards: Not classified

Health Hazards

Acute Toxicity (Oral): Category 3

Acute Toxicity (Dermal): Category 3

Skin Corrosion/Irritation: Category 3

Serious Eye Damage/Irritation: Category 2B

Germ Cell Mutagenicity: Category 2

Carcinogenicity: Category 2

Specific Target Organ toxicity- Respiratory tract irritation

- Single exposure: [Category 3]

Environmental Hazards: Not classified

GHS label elements, including precautionary statements

Pictograms or Hazard symbols



Signal Word: Danger

Hazard Statements

Toxic if swallowed or in contact with skin

Causes mild skin irritation

Causes eye irritation

Suspected of causing genetic defects

Suspected of causing cancer

May cause respiratory irritation

Precautionary statements

[Prevention] Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Wear protective gloves and eye/face protection.

[Response]

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

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 advice/attention.

IF ON SKIN: Gently wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Remove/Take off immediately all contaminated clothing.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

[Storage]

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

[Disposal]

Dispose of contents/container through a waste management company authorized by the local government.

#### Section 4-First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

Skin Contact: Take off contaminated clothing, rinse skin with plenty of water and soap. Seek medical attention, if you don't feel well.

Eye Contact: Lift eyelid, flush eyes with plenty of running water or normal saline. Get medical attention immediately.

Ingestion: Rinse mouth. Don't induce vomiting. Get medical attention.

Precaution to First-aiders: Remove victims to refresh air. Get medical attention. Present this MSDS to the physician.

Precaution to Physician: N/A

#### Section 5-Firefighting Measures

Suitable Extinguishing Media: Dry chemical, foam, water spray, carbon dioxide.

Avoid using once-through water, as it may cause splash of flammable liquid and spread the flames.

Special Hazards: N/A

#### PRECAUTIONS FOR FIREFIGHTERS

Fire-extinguishing work is done from the windward and use the suitable fire-extinguishing method according to the surrounding situation. Isolate the place, uninvolved persons should evacuate to a safe place. In case of fire in the surroundings, remove movable containers if safe to do so. If the container changes color or produces a sound, back out immediately. Contain and dispose of contaminated firefighting water to protect environment.

Special Protective Equipment: When extinguishing fire, be sure to wear personal protective equipment.

### Section 6-Accidental Release Measures

#### PERSONAL PRECAUTION

Emergency personnel are recommended to wear self-contained respirator, anti-static work clothing and rubber, oil-resistant gloves.

Don't contact or cross the spill.

All operating equipment should be properly grounded.

Try to cut off source of release.

Eliminate all source of ignition.

Isolate emergency area and control the entry of uninvolved personnel.

#### ENVIRONMENT PROTECTION MEASURES

Contain the spill to avoid pollution. Keep the spill from entering drains, surface water and underground water.

#### RECOVERY, DISPOSAL METHOD AND DISPOSAL MATERIAL

Small Spill: Collect the spill into a sealed container. Absorb it with sand, active carbon or other inert material, and remove it to a safe place. Don't flush it into drains.

Large Spill: Block the drains. Dig a hole to contain it and cover it with foam to inhibit evaporation.

Pump (ex-proof type) it to tanker car or special container. Recycle or transport to waste disposal place.

### Section 7-Handling &Storage

Precaution: Handlers must receive special training before operation and strictly follow operation rules. Handling is performed in a well-ventilated place, local or general.

Avoid eye contact and skin contact. Avoid inhalation of vapor.

Personal protection measures as indicated in Section 8.

Keep away from source of heat and combustion. No smoking at workplace.

Use ex-proof exhaust.

When can it, control flow rate and make sure the equipment is properly grounded. Avoid electrostatic accumulation.

Keep away from incompatibilities like oxidant. (Incompatibilities indicated in Section 10)

Handle with care, avoid damage to packages or containers.

There may be residue in emptied containers.

Wash hands thoroughly after handling. Don't eat or drink at workplace.

Install firefighting apparatus and equipment for accidental release.

#### STORAGE

Keep it at cool, dark, well-ventilated place.

Warehouse temperature should be controlled below 37 Deg. C.

Store separately from oxidants and food chemicals.

Keep containers tightly closed.

Keep away from source of heat and combustion.

Protect from moisture.

Store locked up.

Lightening arresters must be installed at warehouse.

Exhaust should be installed with grounding facility for removing electrostatic.

Use ex-proof lighting and ventilation.

Use only non-sparking equipment and tools.

Emergency equipment for accidental release and proper recovery material should be available.

Ingredient	CAS	Standard	Category	Limits	Remark
1,3-Propanesultone	1120-71-4	GBZ 2.1—2007	MAC	-	Null
			PC-TWA	-	
			PC-STEEL	-	

#### Section 8-Exposure Controls & Personal Protection

Exposure Limits:

Biological Limits: N/A

Detection: GBZ/T 160.1 - GBZ/T 160.81-2004 –*Detection of Airborne Toxic Substance at Workplace* (standard), EN14042 –*Workplace Air* (guide for evaluation of exposure to chemicals or biological reagents).

#### ENGINEERING CONTROLS

Better separate workplace from other places.

Use closed system to avoid release.

Keep the place well-ventilated.

Install automatic warning system and emergency ventilation.

Set up emergency passage and requisite release area.

Set up hazardous zone warning line, warning symbols and warning statement in English.

Install safety shower and eye bath.

#### PERSONAL PROTECTION

Respiratory Protection: Wear filter-type gas mask (half face) when airborne concentration exceeds exposure limits. Wear self-contained breathing apparatus, if the situation requires.

Hand Protection: Wear rubber, oil-resistant gloves.

Eye Protection: Wear safety goggles.

Skin and Body Protection: Wear impervious clothing.

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## Section 9 Physical & Chemical Properties

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Appearance: Transparent crystalline  
Odor: N/A  
pH Value: N/A  
Melting Point/Freezing Point (Deg. C): 30-33 (lit.)  
Boiling Point, Initial Boiling Point and Range: 180 °C 30 mm Hg(lit.)  
Auto-ignition Point: N/A  
Flash Point (°C): -6(lit.)  
Decomposition Temperature: N/A  
Explosive Limits [% (lit.)]: N/A  
Evaporation Rate: N/A  
Saturated Vapor Pressure (kPa): 0.00237mmHg at 25°C  
Flammability (solid, gas): N/A  
Relative Density: 1.392 g/ml at 25 °C(lit.)  
Vapor Density: N/A  
Odor Threshold Value: N/A  
Log Kow: N/A  
Water Solubility: Slightly soluble  
Viscosity: N/A

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## Section 10-Stability & Reactivity

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Stability: Stable when stored /used at normal temperature  
Hazardous Reaction: N/A  
Conditions to Avoid: Electrostatic, heat and moisture  
Incompatible Materials: Strong oxidizing agents, strong acids, strong alkali  
Dangerous Decomposition Products: N/A

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## Section 11-Toxicological Information

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ACUTE TOXICITY  
Oral-Rat, TD: 12 g/kg/ 60 wk continuous.  
Inhalation: N/A  
Skin: N/A  
Skin Irritation/Corrosion: N/A  
Eye Irritation/Corrosion: N/A  
Respiratory Tract/Skin Allergy: N/A  
Germ Cell Mutagenicity: N/A  
Carcinogenicity: N/A  
Specific Target Organ Systemic Toxicity-single exposure: N/A  
Specific Target Organ Systemic Toxicity-repeated exposure: N/A  
Risk of Inhalation: N/A

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## Section 12-Ecological Information

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Toxicity to Fish: N/A  
Toxicity to Algae: N/A

Toxicity to Daphnia: N/A

Toxicity to Microbe: N/A

Persistence/Bio-accumulation: N/A

Mobility in Soil: N/A

### Section 13-Disposal Consideration

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Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

### Section 14-Transport Information

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Hazards Class: 6.1: Toxic substance.

UN-No: 2811

Proper shipping name: Toxic solid, organic, N.O.S.

Packing group: III

### Section 15-Regulatory Information

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*Regulations on the Control over Safety of Dangerous Chemicals* (State Council announces on January 26, 2002 and revised on February 16, 2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

### Section 16-Other Information

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This SDS was prepared sincerely on the basis of the information we could obtained, 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 products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase inconsideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind 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 products 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 up on each user's own responsibility.