



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PROPAN-1-OL

CAS Number: 71-23-8

1. IDENTIFICATION:

Product Code : 90057, 90730, 91648, 91815, 94044, 98135, 999025

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2. HAZARDS IDENTIFICATION:**Hazard classification****Physical hazards**

Flammable liquids : Category 2

Health hazards

Serious eye damage/eye irritation : Category 1

Specific target organ toxicity - single exposure : Category 3

Labels elements**Hazard symbol**

Signal word : Danger

Hazard statement

Toxic in contact with skin.
Toxic if inhaled.
Toxic if swallowed.
Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
Suspected of damaging fertility or the unborn child.
Causes damage to organs.

Precautionary statement**Prevention**

Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed. Ground/ bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools. Take precautionary measures against static discharge.



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| | |
|--|--|
| Response | : IF exposed or concerned: Get medical advice/ attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| Storage | : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |
| Disposal | : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |
| Other hazards which do not result in GHS classification | : Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion. |

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

| Ingredient | CAS Number | Percent | Hazardous |
|-------------|------------|---------|-----------|
| Propan-1-ol | 71-23-8 | NLT 99% | Yes |

4. FIRST AID MEASURES:

| | |
|---|---|
| General information | : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance. |
| Ingestion | : Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. |
| Inhalation | : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist. |
| Skin contact | : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. |
| Eye contact | : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. |
| Most important symptoms/effects, acute and delayed | : Toxic if inhaled. Toxic if swallowed. Toxic in contact with skin. Irritating to eyes, respiratory system and skin. |
| Indication of immediate medical attention and special treatment needed | : Symptoms may be delayed. Treat symptomatically. |



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5. FIRE FIGHTING MEASURES:

General information : Flammable liquid and vapor.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media : Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical : Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Vapor from the solvent may accumulate in container headspace resulting in flammability hazard. Heat may cause the containers to explode.

Special protective equipment and precautions for firefighters

Special firefighting procedures : Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Special protective equipment for fire-fighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye

Protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Store in a dry place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.



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8. EXPOSURE CONTROLS PERSONAL PROTECTION:**Control parameters****Occupational exposure****limits** : Contains no substances with occupational exposure limit values**Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.**Individual protection measures, such as personal protective equipment****General information** : Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.**Eye/face protection** : Wear safety glasses with side shields (or goggles).**Hand protection** : Chemical resistant gloves.**Other** : Wear suitable protective clothing.**Respiratory protection** : In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.**Hygiene measures** : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.**9. PHYSICAL AND CHEMICAL PROPERTIES:****Appearance** : Clear, colorless liquid**Odor** : Characteristic**Solubility** : Miscible in water.**Molecular Formula** : C_3H_8O **Molecular Weight** : 60.10 g/mol**Specific Gravity** : 0.804 g/mL at 25 °C**pH** : 7.0 at 200 g/l at 20 °C**% Volatiles by volume @ 21C (70F)** : 100**Boiling Point** : 97.0 °C**Melting Point** : -127.0 °C**Flash Point** : 15.0 °C**Vapor Density (Air=1)** : 2.07**Vapor Pressure (mm Hg)** : 19.3 h Pa at 20 °C



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Evaporation Rate (BuAc=1) : No data available.

10. STABILITY AND REACTIVITY:

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No data available.

Conditions to avoid : Heat, sparks, flames.

Incompatible materials : Strong oxidizing agents.

Hazardous decomposition products : No data available.

11. TOXICOLOGICAL INFORMATION:**Information on likely routes of exposure**

Ingestion : Irritating. May cause nausea, stomach pain and vomiting.

Inhalation : May cause irritation to the mucous membranes and upper respiratory tract. May cause central nervous system effects

Skin contact : Causes mild skin irritation

Eye contact : Causes serious eye irritation.

Information on toxicological effects**Acute toxicity (list all possible routes of exposure)**

Oral Product : LD 50 (Rat): 8,038 mg/kg

Dermal Product : LD 50 (Rabbit): 4,000 mg/kg

Inhalation Product : LC 50 (Rat, 1 h): 20000 ppm

Repeated dose toxicity Product : In serious cases absorption in the body may lead to damage to the eyesight.

Skin corrosion/irritation Product : Prolonged or repeated skin contact may cause drying, cracking, or irritation

Serious eye damage/eye irritation Product : Irritating to eyes.

Respiratory or skin sensitization Product : No data available.

Carcinogenicity Product : This substance has no evidence of carcinogenic properties

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans : No carcinogenic components identified.

US. National Toxicology Program (NTP) Report on Carcinogens : No carcinogenic components identified.



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US. OSHA Specifically

Regulated Substances (29 CFR 1910.1001-1050) : No carcinogenic components identified.

Germ cell mutagenicity

In vitro Product : No mutagenic components identified.

Reproductive toxicity

Product : No data available.

Specific target organ

toxicity - single exposure : May cause drowsiness or dizziness.

Product

Specific target organ

toxicity - repeated : No data available.

exposure Product

Aspiration hazard Product : No data available.

Other effects

: No data available.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment :

Fish Product : LC 50 (Fathead minnow (Pimephales promelas), 96 h): > 4,630 mg/l

Aquatic invertebrates : EC 50 (Water flea (Daphnia magna), 48 h): > 3,644 mg/l

Product

Chronic hazards to the aquatic environment :

Fish Product : No data available.

Aquatic invertebrates

Product : No data available.

Toxicity to Aquatic Plants

Product: : No data available.

Persistence and degradability

Biodegradation Product : Expected to be readily biodegradable.

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor (BCF) Product : May accumulate in soil and water systems.

Partition coefficient n-octanol / water (log Kow) : No data available.

Product

Specified substance(s) : Log Kow: 0.25



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Mobility in soil : No data available.

Other adverse effects : No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

| | UN No. | UN proper shipping name | Hazard Class(es) | Packaging group | Marine Pollutant |
|------|---------|-------------------------|------------------|-----------------|------------------|
| DOT | UN 1274 | Propan-1-ol | 3 | II | No |
| IMDG | UN 1274 | Propan-1-ol | 3 | II | No |
| IATA | UN 1274 | Propan-1-ol | 3 | II | No |

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

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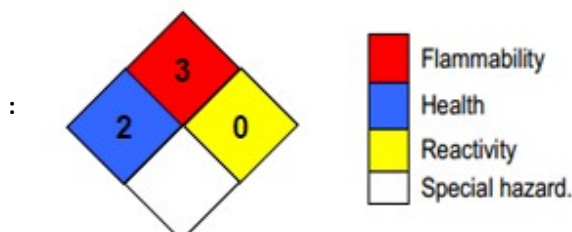
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16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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