

Safety Data Sheet

1. IDENTIFICATION	
Product Name:	N-Propanol
Other Names:	1-Propyl Alcohol, N-Propyl Alcohol, NPA, n-Propan-1-ol
Recommended Use:	Solvent for resin, lacquers, wax, printing ink, adhesives, plastics and polishes agent. Raw material for used in the chemical industry such as paints, rubbers, plastic, cosmetics, pharmaceuticals, and dehydrate agents.
Supplier:	Global Chemie ASCC Limited
Street Address:	88/123 Moo 2 Bangpoo Industrial Estate (North), Phraek Sa Mai, Mueang Samutprakan, Samutprakan 10280
Telephone:	+66 2324 6888
Fax:	+66 2324 6889-99
Emergency phone:	+66 2324 6888 ext.320

2. HAZARDS IDENTIFICATION

Hazardous Nature

This product is classified as hazardous under GHS criteria

Hazardous Classification

Flammability Category 2

Serious eye damage category 1

Specific target organ toxicity following single exposure: Category 3

Hazardous Statement

Highly Flammable liquid and vapor

GHS Pictograms



Hazard Statements

H225: Highly Flammable liquid and vapor.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Precautionary Statements

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking

- P233: Keep container tightly closed.
- P240: Ground/Bond container and receiving equipment.
- P241: Use explosion-proof electrical/ventilating/lighting/equipment.
- P242: Use only non-sparking tools.
- P243: Take precautionary measure against static discharge.
- P261: Avoid breathe dust/fume/gas/mist/vapours/spray.
- P264: Wash thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective glove/eye protection/face protection.

Response Statements

<u>If on skin</u>

P303+P361+P353: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378: In case of fire: Use manufacturer/supplier or the competent authority to specify appropriate media for extinction.

<u>If in eye</u>

P305+P351+P338: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled

P304+P340: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage Statements

P403+P235: Store in a well-ventilated place. Keep cool.

P235: Keep cool.

P405: Store locked up.

Disposal Statements

P501: Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied.

Signal Word Danger

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	UN No.	Proportion (%v/v)
n-Propanol	71-23-8	1274	>99.5

Molecular Formula: C₃H₈O

Molecular Weight: 60.1 g/mol

4. FIRST AID MEASURES

For advice, contact Ramathibodi Poison Centre (Phone: 1367) or a doctor.

Ingestion

Immediately make victim drink plenty of water. Do not induce vomiting; Do not eat milk and castor oil, transport to nearest medical facility for additional treatment.

Eye Contact

Immediately flush eyes with large amounts of water for at least 10 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.

Skin Contact

Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes and follow by washing with soap and water if available.

Inhalation

Remove to fresh air. If the victim has difficulty breathing or tightness of the chest, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray or fog, Dry chemical powder, Alcohol-resistant foam and Carbon dioxide.

Hazards from combustion products

May produce toxic fumes of carbon monoxide, carbon dioxide if burning.

Precautions for fire fighters and special protective equipment

Wear full protective clothing and self-contained breathing apparatus.

Special protective action for fire-fighters

Keep adjacent containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment

Protective Measures

• Observe all relevant local and international regulations.

• Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see chapter 8 this Material Safety Data Sheet. Shut off leaks, if possible, without personal risks. Remove all possible sources of ignition in the surrounding area. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

• Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Clean-Up Methods

 Small spillage (< 200 LT) 	: Transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
 Iarge spillage (> 200 LT) 	: Transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Other Information

Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin, eyes, and clothing. Do not breathe vapours. Extinguish any naked flame. Remove ignition sources. Avoid sparks. Do not smoke. The vapour is heavier than air spreads along the ground and distant ignition is possible. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not use compressed air for filling, discharging, or handling operations. Handle and open container with care in well-ventilated area. Do not empty into drains.

Conditions for safe storage

Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Bulk storage tanks should be diked (bunded). Keep away from aerosols, flammables, oxidizing agents, corrosives. Storage Temperature: Ambient.

Incompatible materials

Strong oxidizing agents and strong acids.

Recommended Materials

For containers, or container linings use mild steel, stainless steel.

Product Transfer

Keep containers closed when not in use. Do not use compressed air for filling, discharging, or handling operations. If positive displacement pumps are used, these must be fitted with a non-integral pressure relief valve. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Additional Advice

Containers even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

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8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards

Occupational Exposure Limits

TLV-TWA = 200 ppm

TLV-STEL = 250 ppm

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value.

Personal Protective Equipment

Respiratory Protection:

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Eye Protection: Chemical splash goggles (chemical monogoggles).

Skin/ Body Protection: Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

Hand Protection: Butyl rubber gloves, Nature rubber gloves, Neoprene rubber gloves, Nitrile rubber gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of Measurement	Typical Value
Appearance	-	Colorless Liqiud
Odour	-	Specific odour
рН	-	No data available
Boiling point	°C	97
Melting point	°C	-127
Flash point	°C	15
Autoignition Temperature	°C	400
Decomposition Temperature	°C	No data available
Lower/Upper Flammability Limits	%V	2.1-13.5
Density @ 20°C	g/cm ³	0.800-0.810
Specific Gravity @ 20°C	-	0.801-0.811
Viscosity @ 20°C	cSt.s	No data available
Vapor pressure	kPa	3.33
Vapor density	kPa (Air = 1)	2.1
Evaporation Rate	(n-Butyl acetate = 1)	No data available
Water Solubility		Miscible
Solubility in other solvents Partition coefficient	(n-octanol/water)	No data available
Coefficient of Thermal Expansion	per Deg °C	No data available

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

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10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions.

Conditions to avoid

Heat, flame, spark and other ignition sources.

Hazardous decomposition products

Thermal decomposition is highly dependent on conditions. Carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation. May form explosive peroxides.

Hazardous reactions

None known.

Hazardous Polymerisation

No.

Materials to Avoid

Strong oxidizing agents and strong acids.

Chemical Reactivity

Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

- LD₅₀ Acute oral toxicity
- : 1,870 mg/kg , (rat)
- ◆ LD₅₀ Acute dermal toxicity : 5,040 mg/kg, (rabbit)
- LC₅₀ Acute Inhalation Toxicity : 10,000 ppm/4 hours, (rat)

Eye Contact

Irritating to eyes.

Skin Contact

Irritating to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

Inhalation

Inhalation of vapours or mists may cause irritation to the respiratory system and may cause drowsiness and dizziness.

Carcinogenicity

No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity

◆ Fish	:	Low toxicity	: LC50 > 100 mg/l
 Aquatic Invertebrates 	:	Low toxicity	: EC50 > 100 mg/l
◆ Algae	:	Low toxicity	: IC50 > 100 mg/l
 Micro organisms 	:	Low toxicity	: IC50 > 100 mg/l

Persistence/ degradability

Readily biodegradable.

Mobility

Dissolves in water. If product enters soil, it will highly mobile and may contaminate groundwater.

Bioaccumulation

Not expected to bioaccumulate significantly.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Material Disposal

Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classifications and disposal methods in compliance with applicable regulations.

Container Disposal

Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an explosion hazard. Do not puncture, cut or weld cleaned drums. Send to drum recovered or metal reclaimer.

Local Legislation

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied.

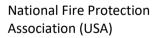
14. TRANSPORT INFORMATION

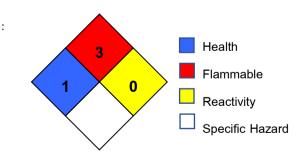
Road and Rail Transport		Marine Transport		Air Transport	
UN. Number	1274	UN. Number	1274	UN. Number	1274
Class/Item	3	Class/Item	3	Class/Item	3
Hazard Symbol	Flammable Liquid	Hazard Symbol	Flammable Liquid	Hazard Symbol	Flammable Liquid
Proper Shipping Name	n-Propanol	Proper Shipping Name	n-Propanol	Proper Shipping Name	n-Propanol
Packing Group	II	Packing Group	11	Packing Group	II
		Marine Pollutant	No		

15. REGULATORY INFORMATION

EC Label Name:	n-Propanol
EC Classification:	Highly Flammable.
EINECS (EC):	200-746-9
EC Annex I Number:	No data available
MITI (Japan):	No data available

16. OTHER INFORMATION





N-Propanol	Safety Data	a Shee
SDS Distribution	 The information contained herein is based on our current know the underlying data and is intended to describe the product for purpose of health, safety and environmental requirements only warranty of guarantee is expressed or implied regarding the acc these data or the results to be obtained from the use of the pro 	the . No suracy of
Prepared By	: Quality Control Department / Global Chemie ASCC Limited	
Abbreviations:		

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information, please contact Global Chemie ASCC Limited.

AICS: Australian Inventory of Chemical Substances

IARC: International Agency for Research on Cancer

NOHSC: National Occupational Health and Safety

CAS Number: Chemical Abstracts Number

Council GHS: Global Harmonized System

Supplier Material Safety Data Sheets

http://chem.sis.nlm.nih.gov/chemidplus (October 18) http://hsis.ascc.gov.au/SearchHS.aspx (October 18)

Ecotoxicology data: http://cfpub.epa.gov/ecotox/quick_query.htm (October 18)

Sax's Dangerous Properties of Industrial Materials, Richard J. Lewis Snr., pub. Canada (2000)

N/A: not available

References:

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The information sourced for the preparation of this document was correct and complete at the time of writing to the

surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. No warranty and guarantee are expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product for further

best of the writer's knowledge. The document represents the commitment to the company's responsibilities