

Safety Data Sheet

Prop BH

1. Identification of the substance or mixture and of the supplier

Trade Name PropBH

mix-Alcohol

Material Uses : Solvent for paints industry, thinners and lacquers.

Supplier : Global Chemie ASCC Limited.

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2. Hazards Identification

GHS Classification : Flammable liquids : Category 3

Acute Toxicity: Category 4
Skin Irritation: Category 2

Seriuos eye damage : Category 1

Specific target organ toxicity following single exposure: Category 3

Signal word : Danger

Health Hazard Irritating to eyes and skin. Harmful by inhalation and if swallowed.

Environmental Hazard Not classified as dangerous under EU criteria.

GHS Pictogram







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GHS Hazard statements : H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.H315 Cause skin irritation.

: H318 Cause serious eye damage.: H335 May cause respiratory irritation

: H336 May cause drowsiness or dizziness.

GHS Precautionary statements

Prevention	P210	Keep away from heat/sparks/open flames/hot surface and Non- 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.	
	P270	Do not eat, drink or smoke when using this product.	
	P271	Use only outdoors or in a well-ventilated area.	
	P280	Wear protective glove/eye protection/face protection.	
Response	<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.	
	P302+P352	Wash with plenty of soap and water.	
	P362	Take off contaminated clothing and wash before reuse.	
	<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.	
	P337+P313 +P332	If eye or skin irritation persists: Get medical advice/attention.	
	<u>If inhaled</u>	Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
	P304+P340		
	If swallowed		
	P301+P312	Call a poison center or doctor/physician if you feel unwell.	

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Storage P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P235 Keep cool.

P405 Store locked up.

Disposal 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 with.

Precautionary Pictograms













3. Composition/ Information on ingredients

Chemical Name : -

UN No. : 1987

Composition

Name	CAS No.	% By Weight
1.) n-Propanol	71-23-8	>60
2.) sec-Butyl alcohol	78-92-2	20-30
3.) Isobutyl alcohol	78-83-1	5.4
4.) n-Butanol	71-36-3	1.5

4. First-aid measures

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.

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.

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.

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.

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5. Fire —fighting measures

Suitable extinguishing media

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

Carbon dioxide.

Specific hazard arising from

the chemical

May produce toxic fumes of carbon monoxide, carbon dioxide if

burning.

Special protective action for fire-fighters

Keep adjacent containers cool by spraying with water.

Protective Equipment.

Wear full protective clothing and self-contained breathing

apparatus.

6. Accidental Release Measures

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.

 large 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

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.

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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.

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 nonintegral pressure relief valve. Ensure electrical continuity by

bonding and grounding (earthing) all equipment.

Recommended Materials : For containers, or container linings use mild steel, stainless steel.

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.

8. Exposure Controls and Personal Protection

Exposure Standard : Occupational Exposure Limits

n-Propanol

• TLV-TWA = 200 ppm • TLV-STEL = 250 ppm

Sec-Butyl alcohol

• TLV-TWA = $150 \text{ ppm} (303 \text{ mg/m}^3)$

Isobutyl alcohol

• TLV-TWA = $50 \text{ ppm} (152 \text{ mg/m}^3)$

n-Butahol

• TLV-TWA = 100 ppm

Engineering Controls

Workplace

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

threshold limit value.

Respiratory Protection : Vapor respirator. Be sure to use an approved/certified respirator or

equivalent. Wear appropriate respirator when ventilation is

inadequate.

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

gloves, Nitrile rubber gloves.

Eye Protection : Chemical splash goggles (chemical monogoggles).

Other Protection : Use protective clothing which is chemical resistant to this material.

Safety shoes and boots should also be chemical resistant.

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9. Physical and Chemical Properties

Appearance : Clear liquid.

Odour : Specially odour.

pH Value : No data available.

Boiling Point (°C) : 97.2 °C (n-Propanol), weighted average: 98.81 °C

Melting Point (°C) : -89.5 °C (n-Butanol), weighted average: -121.1 °C

Flash Point : 15 °C (Abel)

Evaporating Rate : 1.3 (n-Butyl Acetate = 1)

Lower/Upper Flammability

limits

2.1- 13.5 %V (n-Propanol)

Vapour Pressure (mmHg) : 14.9 mmHg @ 20 °C (n-Propanol).

Weighted average: 12.9 mmHg @ 20 °C

Specific Gravity : Weighted average: 0.81@ 20 °C (ASTM D4052) (water = 1)

Density (g/cm³) : 0.80 - 0.82 @ 20 °C (ASTM D4052)

Vapour Density : 2.6 @ 20 °C (air = 1) (n-Butanol)

Weighted average: 2.27 (air = 1)

Solubility in Water : Soluble complete @ 20 °C (ASTM D1722)

Auto Ignition Temperature : 343 ° C (n-Butanol)

10. Stability and Reactivity

Chemical Reactivity : Stable under normal conditions

Stability : Stable under normal conditions.

Hazardous Polymerisation : No.

Conditions to Avoid : Heat, flame, spark and other ignition sources.

Materials to Avoid : Strong oxidizing agents, acid and strong alkalis.

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.

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11. Toxicological Information

Acute Toxicity

n-Propanol

LD₅₀ Acute oral toxicity
LD₅₀ Acute dermal
1,870 mg/kg , (rat)
4,060 mg/kg , (rabbit)

toxicity

LC₅₀ Acute Inhalation

Toxicity

4,000 ppm 4 hours , (rat)

Skin Irritation : Irritating to skin. Prolonged/repeated contact may cause defatting

of the skin which can lead to dermatitis.

Eye Irritation : Irritating to eyes. Inflammation of the eye is characterized by

redness, pain and itching.

Respiratory Irritation : Inhalation of vapours or mists may cause irritation to the

respiratory system.

Carcinogenicity : No data available.

12. Ecological Information

Mobility : Dissolves in water.

If product enters soil, it will highly mobile and may contaminate

groundwater.

Persistence / Degradability : Readily biodegradable.

Bio-accumulation : Not expected to bioaccumulate significantly

13. Disposal Considerations

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 unclenaed drums. Send to drum

recoverer or metal reclaimer.

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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 with.

14. Transport Information

Road/Rail Transport

ADR/RID : 1987

• UN. Number

: 3

• Class/Item

: Flammable Liquid

Hazard Symbol

: ALCOHOLS, N.O.S.

• Proper Shipping Name

II

• Packing Group

Maritime Transport IMO

• UN. Number : 1987

• Class : 3.2

• Packing Group : II

Hazard Symbol : Flammable Liquid

• Proper Shipping Name : ALCOHOLS, N.O.S.

• Marine Pollutant : No

Air Transport IATA/ICAO

• UN. Number : 1987

• Class : 3

• Packing Group : II

◆ Hazard Symbol : Flammable Liquid

• Proper Shipping Name : ALCOHOLS, N.O.S.

15. Regulatory Information

EC Label Name : PropBH

EC Classification : Highly Flammable, Irritation.

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16. Other Information

National Fire Protection Association (USA)

Health

Fire Hazard

Reactivity

Specific Hazard

MSDS Distribution : The information in this document should be made available to all

who may handle the product.

Prepared By : Quality Control Department.

Global Chemie ASCC Limited

Disclaimer:

The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

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