

SAFETY DATA SHEET: Prop BH

MSDS No: TMC-AL-PBH

1. IDENTIFICATION OF CHEMICAL PRODUCT

Name of substance: Prop BH **Chemical Family:** Alcohol

Product Description: Clear colourless liquid

Supplier: **Transmare-Chemie (Singapore) Pte Ltd**
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2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Flammable Liquids	Category 3
Skin Corrosion / Irritation	Category 2
Specific Target Organ Toxicity (Single Exposure)	Category 3
Eye damage/irritation	Category 1

GHS Label Elements

Symbols:



Signal Word(s): Danger

GHS Hazards Statement

Physical Hazards:

H226: Flammable liquid and vapor

Health Hazards:

H315: Causes skin irritation.
H318: Causes serious eye damage
H335: May cause respiratory irritation
H336: May cause drowsiness or dizziness.

GHS Precautionary Statement

Prevention:

P210: Keep away from open flames/hot surfaces. - No smoking.
P240 Do Not induce vomiting
P241: Use explosion-proof electrical/ ventilating/ lighting equipment.
P243: Take precautionary measures against static discharge.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection
P264: Wash hands thoroughly after handling.

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P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P271: Use only outdoors or in a well-ventilated area.

Response:

P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.
 P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
 P332 + P313: If skin irritation occurs: Get medical advice/ attention.
 P362: Take off contaminated clothing and wash before reuse.
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTER/doctor.
 P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage:

P403+ P233+P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool
 P405: Store locked up.

Disposal

P501: Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other Hazards Which Do Not Result in Classification

No data available

Aggravated Medical Condition

N/A

3. COMPOSITION/ INFORMATION ON INGREDIENTS

CAS NUMBER: 64742-81-0

Chemical Name	CAS Number	Concentration
1-Propanol	71-23-8	>= 40.00 %W/W
2-Butanol	78-92-2	<= 30.00 %W/W
2-Methyl-1-Propanol	78-83-1	<= 15.00 %W/W
1-Butanol	71-36-3	<= 10.00 %W/W
3-Methyl-2-Butanol	598-75-4	<= 4.00 %W/W
2-Pentanol	6032-29-7	<= 4.00 %W/W

4. FIRST AID MEASURES

Inhalation, Skin Contact, Eye Contact, Ingestion

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<i>Medical attention.</i>	<i>Emergency shower.</i>	<i>Emergency eyewash.</i>

5. FIRE FIGHTING MEASURE

Appropriate Extinguishing Media:

- CO₂
- Alcohol Resistance Foam
- Dry Chemical
- Water Fog

Inappropriate Extinguishing Media:

- Water Jet

6. ACCIDENTAL RELEASE MEASURES

- Eliminate ignition sources. Prevent liquid enters sewers, water sources, low area.
- Spill with sand, earth. Dilute contained spill with water. Dispose recover material conforms to local regulation.
- Keep public away.

7. HANDLING AND STORAGE

Storage/ Transport Temperature:

Ambient

Loading/ Unloading Temperature:

Ambient

Ensure all equipment is electrically grounded before beginning transfer operations.
Take precautionary measures against static discharge.
Keep away from heat and sources of ignition.
Avoid breathing mists or vapour. Avoid contact with skin.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control Measures/Ventilation

Provide sufficient air exchange and/or exhaust in work rooms.

Personal Protection



Vapor respirator. Gloves. Goggles. Full suit. Footwear.

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9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical State:	Liquid
Form/Color:	Colourless
Odor:	Alcohol-like
Flash Point (TCC ASTM D56):	26 °C
Boiling Point / Range:	99 - 109 °C
Specific Gravity(20.0/20.0):	N/A
Density (15°C):	0.804 g/cm ³
Melting Point:	-89.5 °C
Auto-ignition Temperature:	343 °C
Evaporation Rate (Ether=1):	N/A
Vapor Pressure:	N/A
Dynamic Viscosity:	2.728 mPa.s; 20 °C
Solubility in Water (20°C):	Completely miscible, Completely soluble
Lower Explosive Limits	2.1% (V)
Upper Explosive Limits	13.5% (V)
Vapor Density (101.3kPa/air = 1):	N/A
Molecular Weight:	N/A
Coeff. Of Thermal Expansion (liq):	N/A
Odor Threshold:	N/A
pH:	7
Material Hygroscopic:	N/A

10. STABILITY AND REACTIVITY	
Hazardous Polymerization: Will not occur	Conditions to Avoid Polymerization: N/A
Stability: Stable	Conditions to Avoid Instability: N/A
Possibility of hazardous reactions:	Heating can release hazardous gases.
Materials and Conditions to Avoid:	Strong oxidizing agent, Reducing agents Acids and bases. Avoid heat, sparks, open flames and other ignition sources.
Hazardous Decomposition Products:	No decomposition if stored normally.

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11. TOXICOLOGICAL INFORMATION

Inhalation:	Irritation to respiratory tract.
Skin Contact:	May cause irritation
Eye Contact:	Risk of serious damage to eyes
Ingestion:	Acute toxicity

12. ECOLOGICAL INFORMATION

Toxicity to fish:	Butan-1-ol: flow-through test; Pimephales promelas; 96 h; LC50; > 100 mg/l; OECD Test Guideline 203; GLP: no; (literature value) Propan-1-ol: semi-static test; Leuciscus idus; 96 h; LC50; > 100 mg/l; (literature value)
Toxicity to daphnia and other aquatic invertebrates:	Butan-1-ol: flow-through test; Daphnia magna; 7 d; EC50; > 100 mg/l; OECD Test Guideline 202; GLP: no; (literature value) Propan-1-ol: static test; Daphnia magna (Water flea); 48 h; EC50; > 100 mg/l(literature value)
Toxicity to algae:	Propan-1-ol: static test; Pseudokirchneriella subcapitata (green algae)EC50; > 100 mg/l; literature value
Environmental Degradability:	Butan-1-ol: aerobic; activated sludge of a predominantly domestic sewage; > 70 %; 9 d; Readily biodegradable.; OECD Guideline 301 E; GLP: no; literature value 2-methylpropan-1-ol: aerobic; > 70 %; 14 d; Readily biodegradable.; OECD Guideline 301 A (new version); (literature value) Propan-1-ol: aerobic; Readily biodegradable.; (literature value)
Ecotoxicity and Bioaccumulation:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

13. DISPOSAL CONSIDERATIONS

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- Disposal should be in accordance with local, regional and national legislations.
- Contact Transmare-Chemie or local Authorities for more information.

14. TRANSPORT INFORMATION

	Land	Sea	Air
Class	3	3	3
Packing Group	III	III	III
UN Number	1987	1987	1987
Transport Document Name	ALCOHOLS, N.O.S. (n-propanol, butanols)	ALCOHOLS, N.O.S. (n-propanol, butanols)	ALCOHOLS, N.O.S. (n-propanol, butanols)
Others	Hazchem Code: N/A	Marine Pollutant: N/A EmS: F-E, S-D Risk Label: 3	

15. REGULATORY INFORMATION

Material is hazardous according to GHS Criteria

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

- TSCA
- DSL
- AICS
- NZIoC
- ENCS
- ISHL
- KECI
- PICCS
- IECSC

16. OTHER INFORMATION**Revision Date on 28th November 2023**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of Transmare-Chemie Company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

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