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1. IDENT	TIFICATION OF CHEMICAL PRODUCT			
Name of s	Name of substance: Isopropyl Alcohol Chemical Family: Alcohol			
Product D	escription: Clear colourless liquid			
Supplier:	Transmare-Chemie (Singapore) Pte Ltd No. 12 Soon Lee Road, Singapore 628076 Telephone: (65) 6262 0122 Facsimile: (65) 6262 0112 Email: <u>sales@transmare-chemie.com</u> Website: <u>www.transmare-chemie.com</u>			

Category 2

Category 5

Category 5

Category 2

Category 2

Category 1

Category 2

Category 2

Toxicity)

Category 3 (Respiratory Tract Irritation)

(Blood vessel, Liver, Spleen)

(Central Nervous System, Kidney, Systemic

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Flammable Liquid Acute Toxicity – Oral Acute Toxicity – Dermal Serious Eye Damage / Irritation Reproductive Toxicity Specific Target Organ Toxicity (Single Exposure) Specific Target Organ Toxicity (Single Exposure)

Specific Target Organ Toxicity (Repeated Exposure) Aspiration Hazard

GHS Label Elements

Symbols:



Signal Word(s): Danger

GHS Hazards Statement

Physical Hazards:

H225: Highly Flammable Liquid and Vapor.

Health Hazards:

- H303: May be harmful if swallowed.
- H305: May be harmful if swallowed or enters airways.
- H316: Causes mild skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
- H361: Suspected of damaging fertility or the unborn child.
- H370: Causes damage to organs (Central Nervous system, Kidney, Systemic Toxicity)



SAFETY DATA SHEET: ISOPROPANOL MSDS No: TMC-AL-1219 H372: Causes damage to organs (Blood vessel, Liver, Spleen) through prolonged or repeated exposure. Environmental Hazards: Not classified as environmental hazards under GHS criteria. **GHS Precautionary Statement** Prevention: P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking. P233: Keep container tightly closed. Ground/bond container and receiving equipment. P240: P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking tools. Take precautionary measures against static discharge. P243: Do not breathe dust/fume/gas/mist/vapors/spray. P260: Wash hands thoroughly after handling. P264: P270: Do not eat, drink, or smoke while product is in use. P271: Use only outdoors or in a well-ventilated area. P281: Use protective equipment as required. **Response:** P303+P361+P353: If on Skin (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. P370+P378: In case of fire: Use appropriate media for extinction. P305+P351+P338: If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention. P308+P313: If exposed or concerned: Get medical advice/attention. If Inhaled: Remove victim to fresh air and keep at rest in a position P304+P340: comfortable for breathing. P301+P312: If Swallowed: Immediately call a Poison Center or doctor/physician if you feel unwell. P331: Do Not induce vomiting. Storage: P403+P233: Store in a well-ventilated place. Keep container tightly closed. P235: Keep cool. Store locked up. P405: Disposal Dispose of contents and container to appropriate waste site or reclaimer in accordance P501: with local and national regulations. Other Hazards Which Do Not Result in Classification Breathing of high vapor concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Aggravated Medical Condition N/A



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SAFETY DATA SHEET: ISOPROPANOL

MSDS No: TMC-AL-1219

3. COMPOSITION/ INFORMATION ON INGREDIENTS CAS NUMBER: 67-63-0		
Chemical Name	CAS Number	Concentration
Propan-2-ol	67-63-0	>99.9%

4. FIRST AID MEASURES

Inhalation, Skin Contact, Eye Contact, Ingestion



Medical attention. Emergency shower. Emergency eyewash.

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.



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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

Use Local exhaust ventilation to control process. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

Occupational Exposure Limits (OEL) Values

Propan-2-ol

- STEL: 400ppm
- TWA: 200ppm

Personal Protection





MSDS No: TMC-AL-1219

9. PHYSICAL AND CHEMICAL PROPERTIES		
Physical State:	Liquid	
Form/Color:	Clear / Colourless	
Odor:	Sharp musty odor like rubbing alcohol	
	11.7°C	
Flash Point (TCC ASTM D56):		
Boiling Point / Range:	83°C	
Specific Gravity(20.0/20.0):	0.787°C	
Density (15°C):	N/A	
Freezing/Melting Point:	-90°C	
Auto-ignition Temperature:	456°C	
Evaporation Rate (Ether=1):	N/A	
Vapor Pressure (25°C):	4.4 kPa	
Viscosity (20°C):	N/A	
Solubility in Water (20°C):	Soluble	
Explosive Limits (in air):	2 – 12vol%	
Vapor Density (101.3kPa/air = 1):	2.1	
Molecular Weight:	60.1g/mol	
Coeff. Of Thermal Expansion (liq):	N/A	
Odor Threshold:	N/A	
pH:	N/A	
Material Hygroscopic:	N/A	
Log Pow: (n-Octanol/Water Partition Coefficient)	0.05	

10. STABILITY AND REACTIVITY			
Hazardous Polymerization:	Will not occur	Conditions to Avoid Polymerization: N/A	
Stability:	Stable	Conditions to Avoid Instability: N/A	
Materials and Conditions to Avoid: Strong oxidizing agents.		Strong oxidizing agents.	
		Avoid heat, sparks, flames, elevated temperatures.	
Hazardous Decomposition Products: Thermal decomposition, carbon oxides.		Thermal decomposition, carbon oxides.	

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11. TOXICOLOGICAL INFORMATION

Inhalation:	Irritation to respiratory tract.
	May cause dizziness.
	May affect central nervous system.
Skin Contact:	Defat, dry skin. Low order of toxicity.
Eye Contact:	May cause discomfort to the eyes. Will not injure eye tissue.
Ingestion:	Minimal toxicity, small amounts may cause bronchopneumonia or pulmonary edema.

12. ECOLOGICAL INFORMATION		
Environmental Mobility:	Substance is water-soluble and is a volatile substance.	
Environmental Degradability:	N/A	
Ecotoxicity and Bioaccumulation:	Low bioaccumulation. Not classified as environmentally hazardous. possibility of harming or damaging environtment.	

13. DISPOSAL CONSIDERATIONS

- Combine with other materials to indicate another route of disposal.
- Recycle, recover or dispose empty drums through a suitably qualified or licensed contractor.
- Ensure compliance with national and local regulations.
- NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers.
- This product is ash less and can be burned directly in appropriate equipment.
- Contact Transmare-Chemie or local Authorities for more information.

	Land	Sea	Air
Class	3	3	3
Packing Group	11	II	II
UN Number	1219	1219	1219
Transport	Isopropanol, Class 3,	Isopropanol, Class 3,	Isopropanol
Document Name	PG II, UN1219,	PG II, UN1219,	
	(11.7°C c.c.)	(11.7°C c.c.)	
Others	Hazchem Code: 2YE	Marine Pollutant: No EmS: F-E, S-D Risk Label: 3	



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15. REGULATORY INFORMATION

Material is hazardous according to GHS Criteria

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

- AICS
- DSL
- IECSC
- EINECS
- ELINCS
- ENCS
- ECL
- PICCS
- TSCA
- New Zealand Inventory

16. OTHER INFORMATION

Revision Date on 27 February 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.