

# SAFETY DATA SHEET: ACETONE

SDS NO: TMC-KT-1090

Revision Date: 15 April 2024

## 1. IDENTIFICATION OF CHEMICAL PRODUCT

**Name of substance:** Acetone

**Chemical Family:** Ketone

**Product Description:** Clear, colourless liquid with a characteristic pungent odour

**Supplier:** **Transmare-Chemie (Singapore) Pte Ltd**  
No. 12 Soon Lee Road, Singapore 628076  
Telephone: (65) 6262-0122  
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Website: [www.transmare-chemie.com](http://www.transmare-chemie.com)

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATION:

Flammable Liquids	Category 2
Serious Eye Damage/Irritation	Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3 (Narcotic effects)

### GHS Label Elements

#### Symbol(s):



**Signal Word(s):** Danger

### GHS Hazards Statement

#### Physical Hazards:

H225: Highly Flammable Liquid and Vapor.

#### Health Hazards:

H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.

**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.  
P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof electrical/ventilating/lighting equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264: Wash hands thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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### Response:

- P303+P361+P353: If on Skin (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
- 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
- P304+P340: If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P370+P378: In case of fire: Use appropriate media for extinction.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.

### Storage:

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

### Disposal

- P501: Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

### Other Hazards Which Do Not Result in Classification

N/A

### Aggravated Medical Condition

N/A

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS CAS NUMBER: 67-64-1

Chemical Name	CAS Number:	Concentration
Acetone	67-64-1	>=99%

### 4. FIRST AID MEASURES

Inhalation, Skin Contact, Eye Contact, Ingestion



Medical attention. Emergency shower.



Emergency eyewash.

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### 5. FIRE FIGHTING MEASURE

<b>Suitable extinguishing media</b>	:	Water mist, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO <sub>2</sub> ), Dry sand
<b>Unsuitable extinguishing media</b>	:	Water jet
<b>Specific hazards during firefighting</b>	:	Flammable liquid. Vapours may cause flash fire.
<b>Special protective equipment for firefighters</b>	:	Respiratory and eye protection required for fire-fighting personnel. Full protective equipment and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.
<b>Further information</b>	:	Remove all sources of ignition. Keep unnecessary and unprotected personnel away. Remove containers to safe place if possible. Fight fire from an upwind position. Keep surrounding areas cool by spraying water.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	:	Wear appropriate personal protective equipment such as protective gloves, protective clothing, eye protection, face protection, respirator, protective boots, etc. Keep unnecessary and unprotected personnel away. Keep upwind, evacuate downwind. Wear appropriate personal protective equipment as specified in Section 8. Evacuate immediate area. Warn personnel of fire, explosion, and health hazard.
<b>Environmental precautions</b>	:	Do not flush into sewer, river, or any body of water.
<b>Methods and materials for containment and cleaning up</b>	:	Use only non-sparking tools. Absorb or cover with dry earth, sand or other non-combustible material and transfer to sealable containers. Large spills: Dike far ahead of liquid spill for later disposal. Stop leak if possible, without personal risk.

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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:**

TWA: 250ppm, STEL: 500ppm

**Personal Protection:**



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

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9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical State:	Liquid
Form/Color:	Clear, colourless
Odor:	Characteristic pungent odour
Flash Point (TCC ASTM D56):	-17 °C
Boiling Point Range:	56.05 °C
Specific Gravity (20.0/20.0):	0.79
Density (15°C):	N/A
Freezing/Melting Point:	-94.7 °C
Auto-ignition Temperature:	465 °C
Evaporation Rate (n-Bu Acetate=1):	N/A
Vapor Pressure (20°C):	240 hPa
Viscosity (20°C):	N/A
Solubility in Water (20°C):	Miscible in water
Explosive Limits (in air):	2.2 to 13vol%
Vapor Density (101.3kPa/air = 1):	2.0
Molecular Weight:	58
n-Octanol/Water Partition Coefficient (20 °C):	Log Pow: -0.24
Odor Threshold:	200 – 450 ppm
pH:	N/A
Material Hygroscopic:	Yes
Dynamic Viscosity (20 °C)	0.32mPa.s

10. STABILITY AND REACTIVITY	
Hazardous Polymerization: No	Conditions to Avoid Polymerization: NA
Stability: Stable	Conditions to Avoid Instability: NA
Materials and Conditions to Avoid:	Caustics, amines, alkanolamines, aldehydes, ammonia, strong oxidizing agents, and chlorinated compounds
Hazardous Decomposition Products:	None

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### 11. TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	Irritating to eyes, respiratory tract. Causes dizziness, affect other central nervous system.
<b>Skin Contact:</b>	Defat, dry skin. Low order of toxicity.
<b>Eye Contact:</b>	Irritating, injure eye tissue if not removed promptly
<b>Ingestion:</b>	Minimal toxicity, small amounts may cause bronchopneumonia or pulmonary edema.

### 12. ECOLOGICAL INFORMATION

<b><u>Ecotoxicity:</u></b>	
<b><u>Acute toxicity</u></b>	: Not classified
<b>Toxicity to fish</b>	: LC50 (Oncorhynchus mykiss (rainbow trout)): 5540 mg/l Exposure time: 96 h
<b>Toxicity to daphnia and other aquatic invertebrates</b>	: LC50 (Daphnia pulex (Water flea)): 8800 mg/l Exposure time: 48 h
<b><u>Chronic toxicity</u></b>	
<b>Chronic aquatic toxicity</b>	: Not classified
<b><u>Biodegradability</u></b>	
	: Readily biodegradable.
<b><u>Bioaccumulation</u></b>	
	: Bioconcentration factor (BCF): 3 Bioaccumulation is unlikely.
<b>Partition coefficient: n-octanol/water</b>	: log Pow: -0.24 (20 °C)
<b><u>Other adverse effects:</u></b>	
<b>Hazardous to the ozone layer</b>	: Not classifiable

### 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.

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14. TRANSPORT INFORMATION			
	Land	Sea	Air
<b>Class</b>	3	3	3
<b>Packing Group</b>	II	II	II
<b>UN Number</b>	1090	1090	1090
<b>Transport Document Name</b>	Acetone, Class 3, UN 1090, PGII, (-17°C c.c)	Acetone Class 3, UN1090, PG II, (-17°C c.c)	Acetone
<b>Others</b>	<b>Hazchem Code:</b> 2YE	<b>Marine Pollutant:</b> No <b>EmS:</b> F-E, S-D <b>Risk Label:</b> 3	

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### 15. REGULATORY INFORMATION

#### Singapore

- **WORKPLACE SAFETY AND HEALTH ACT & WORKPLACE SAFETY AND HEALTH (GENERAL PROVISIONS) REGULATIONS:**  
This product is subject to the SDS, labelling, PEL and other requirements in the act/regulation.
- **MARITIME AND PORT AUTHORITY OF SINGAPORE (DANGEROUS GOODS, PETROLEUM AND EXPLOSIVES) REGULATIONS:**  
This product is subject to the requirements of this regulation.
- Material is hazardous as defined by Specification for Hazardous Communication for Hazardous Chemicals and Dangerous Goods (Singapore Standard SS586) Part 2:2014 – Globally harmonised system of classification and labelling of chemicals - Singapore's adaptation.
- **CHEMICAL WEAPONS PROHIBITION ACT:**  
This product is subject to the requirements of this act.
- **FIRE SAFETY (PETROLEUM AND FLAMMABLE MATERIALS) REGULATION:**  
This product is subject to the usage, transportation and storage requirements of this regulation.

#### Notification status

Japan	ENCS:	On the inventory, or in compliance with the inventory.
United States of America (USA)	TSCA:	On the inventory, or in compliance with the inventory.
European Union	REACH:	N/A
Canada	DSL, NDSL:	All components of this product are on DSL.
Australia	AICS:	On the inventory, or in compliance with the inventory.
Korea	KECI:	On the inventory, or in compliance with the inventory.
China	IECSC:	On the inventory, or in compliance with the inventory.
New Zealand	NZIoC:	On the inventory, or in compliance with the inventory.
Philippines	PICCS:	On the inventory, or in compliance with the inventory.

### 16. OTHER INFORMATION

#### Revision Date on 15 April 2024

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.