

**SAFETY DATA SHEET: DAA**

MSDS No: TMC-AL-DAA

**1. IDENTIFICATION OF CHEMICAL PRODUCT**

**Name of substance:** Diacetone Alcohol | **Chemical Family:** Alcohol / Glycol Ether

**Product Description:** Colourless liquid

**Supplier:** Transmare-Chemie (Singapore) Pte Ltd  
No. 12 Soon Lee Road, Singapore 628076  
Telephone: (65) 6262 0122  
Facsimile: (65) 6262 0112  
Email: [sales@transmare-chemie.com](mailto:sales@transmare-chemie.com)  
Website: [www.transmare-chemie.com](http://www.transmare-chemie.com)

**2. HAZARDS IDENTIFICATION**

**GHS CLASSIFICATION:**

Flammable Liquid	Category 4
Acute Toxicity	Category 5
Eye Irritation	Category 2A
Reproductive Toxicity	Category 2
Specific Target Organ Toxicity (Single Exposure)	Category 3

**GHS Label Elements**

**Symbols:**



**Signal Word(s):** Warning

**GHS Hazards Statement**

**Physical Hazards:**

H227: Combustible liquid.

**Health Hazards:**

H303: May be harmful if swallowed.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
H361: Suspected of damaging fertility or the unborn child.

**Environmental Hazards:** N/A

**GHS Precautionary Statement**

**Prevention:**

P203: Obtain, read and follow all safety instructions before use.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
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.

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P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P301+P337+P317: If swallowed or eye irritation persists: Get medical help.

P304+P340+P319: If Inhaled: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.

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

P318: If exposed or concerned, get medical advice.

P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

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

P405: Store locked up.

**Disposal**

P501: Dispose of contents/container to an approved waste disposal plant..

**Other Hazards Which Do Not Result in Classification**

N/A

**Aggravated Medical Condition**

N/A

**3. COMPOSITION/ INFORMATION ON INGREDIENTS CAS NUMBER: 123-42-2**

Chemical Name	CAS Number	Concentration
Diacetone Alcohol (4-hydroxy-4-methyl-2-pentanone)	123-42-2	>=99%

**4. FIRST AID MEASURES**

Inhalation, Skin Contact, Eye Contact, Ingestion



Medical attention. Emergency shower.



Emergency eyewash.

**5. FIRE FIGHTING MEASURE**

**Appropriate Extinguishing Media:**

- CO<sub>2</sub>
- Alcohol Resistance Foam
- Dry Chemical

**Inappropriate Extinguishing Media:**

- Water Fog

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- Water Jet

**6. ACCIDENTAL RELEASE MEASURES**

- Eliminate ignition sources. Prevent liquid enters sewers, water sources, low area.
- Do not use water. Cover spill with dust, sand, vermiculite or similar.
- Keep public away.
- Final disposal of this product must be performed under a specialist's supervision and according to the local environmental legislation.

**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.

**Occupational Exposure Limits (OEL) Values**

- TWA: 50ppm (USA. ACGIH TLV)

**Personal Protection**



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

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Form/Color:</b>	Colourless
<b>Odor:</b>	Pleasant
<b>Flash Point (TCC ASTM D93):</b>	61-64 °C
<b>Boiling Point / Range:</b>	167.9°C
<b>Density (20°C):</b>	0.9357 g/cm <sup>3</sup>
<b>Freezing/Melting Point:</b>	-44°C
<b>Auto-ignition Temperature:</b>	643 °C
<b>Evaporation Rate (n-Bu Acetate=1):</b>	0.12
<b>Vapor Pressure (20°C):</b>	1.29hPa
<b>Solubility in Water (20°C):</b>	Miscible
<b>Explosive Limits (in air):</b>	LEL: 1.80vol% UEL: 6.90vol%
<b>Vapor Density (101.3kPa/air = 1):</b>	1.005
<b>Molecular Weight:</b>	116.16 g/mol
<b>Coeff. Of Thermal Expansion (liq):</b>	N/A
<b>Odor Threshold:</b>	N/A
<b>pH:</b>	N/A
<b>Material Hygroscopic:</b>	N/A
<b>Dynamic Viscosity (25 °C)</b>	2.798mPa.s
<b>n-Octanol/Water Partition Coefficient: (log Kow)</b>	-0.09

### 10. STABILITY AND REACTIVITY

<b>Hazardous Polymerization:</b>	N/A	<b>Conditions to Avoid Polymerization:</b>	N/A
<b>Stability:</b>	Stable	<b>Conditions to Avoid Instability:</b>	Avoid heat, flames, sparks, and other sources of ignition.
<b>Materials and Conditions to Avoid:</b>	Strong oxidizing agents.		
<b>Hazardous Decomposition Products:</b>	Carbon oxides.		

### 11. TOXICOLOGICAL INFORMATION

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<b>Inhalation:</b>	May cause irritation to respiratory tract, nose, throat and eyes.
<b>Skin Contact:</b>	May cause slight irritation
<b>Eye Contact:</b>	May cause irritation and severe damage to eye.
<b>Ingestion:</b>	N/A

**12. ECOLOGICAL INFORMATION**

<b>Environmental Mobility:</b>	Low potential for geoaccumulation.
<b>Environmental Degradability:</b>	Biodegrade readily.
<b>Ecotoxicity and Bioaccumulation:</b>	Not harmful to aquatic organisms. Long-term adverse effects to aquatic organisms are not expected.

**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.

**14. TRANSPORT INFORMATION**

This product is not regulated for land (road, trail), sea and air transport.

**15. REGULATORY INFORMATION**

**Material is hazardous according to GHS Criteria**

**REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS**

TSCA  
 DSL  
 AIIC  
 CSCL  
 KECI  
 IECS  
 PICCS  
 TCSI  
 REACH  
 NZIOC

**16. OTHER INFORMATION**

**Revision Date on 23 September 2024.**

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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.