

**NUVO MATERIAL SAFETY DATA SHEET****NUVO AUSTRALIA PTY LTD**

(ACN 089 731 617)

**324/ 23 MILTON PARADE****MALVERN VIC 3144 AUSTRALIA****PHONE: (03) 9822 2209****FAX: (03) 9822 2109****EMERGENCY No. 0419 341 095 any time****<http://www.nuvo.com.au>****PRODUCT: DI ACETONE ALCOHOL****1. PRODUCT IDENTIFICATION**

PRODUCT NAME: DIACETONE ALCOHOL

**2. COMPOSITION/INFORMATION ON INGREDIENTS**CHEMICAL NAMES AND SYNONYMS: HYDROXY-4-METHYL-2-PENTANONE, 2-  
INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

Substance Name	Wt%
DIACETONE ALCOHOL (123-42-2)	95-100

**STATEMENT OF HAZARDOUS NATURE:****Hazardous according to criteria of Worksafe Australia.**

See Section 8 for exposure limits.

**3. HAZARDS IDENTIFICATION**

EFFECTS OF OVEREXPOSURE: Strong eye irritation. Skin irritation. Respiratory irritation, dizziness, nausea, loss of consciousness.

**4. FIRST AID MEASURES**

**EYE CONTACT:** Flush thoroughly with water for at least 15 minutes. Get immediate medical assistance.

**SKIN CONTACT:** Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

**INHALATION:** Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, use mouth to mouth resuscitation.

**INGESTION:** Do not induce vomiting. Give 1 to 2 glasses of water. Get medical assistance.

**5. FIRE-FIGHTING MEASURES**

EXTINGUISHING MEDIA:

Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES:

Use water to keep fire exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop leak. Water spray may be used to flush spills away from exposures. Prevent run-off from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT:

For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None. Flash Point C(F): 47(117) (ASTM D-56). Flammable limits - LEL: 1.8%, UEL: 6.9%.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.

**MATERIAL SAFETY DATA SHEET**

<b>PRODUCT: DI ACETONE ALCOHOL</b>
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**6. ACCIDENTAL RELEASE MEASURES****PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:**

Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal. Personnel performing clean-up must use protective equipment.

**ENVIRONMENTAL PRECAUTIONS:**

Prevent spills from entering storm sewers or drains and contact with soil.

**PERSONAL PRECAUTIONS:** See Section 8

**7. HANDLING AND STORAGE**

**HANDLING:** Avoid contact with eyes. Avoid contact with skin.

**STORAGE:** Store in a cool area.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****VENTILATION:**

Use in well ventilated area. Ventilation desirable and equipment should be explosion proof.

**RESPIRATORY PROTECTION:**

Approved respiratory protective equipment must be used when vapour or mists concentrations exceed applicable standards.

**EYE PROTECTION:**

Chemical type goggles must be worn.

**SKIN PROTECTION:**

No special equipment required. However, good personal hygiene practices should always be followed.

Substance Name	(CAS-No.)	Source	TWA	STEL
			ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>
DIACETONE ALCOHOL	123-42-2	MOBIL	50	238
		OSHA	50	240
		ACGIH	50	238

**NOTE:** Limits shown for guidance only. Follow applicable regulations.

**THRESHOLD LIMIT VALUE:** 50.00 ppm

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Typical physical properties are given below. Consult Product Specification for specific details.

**APPEARANCE:**

**ODOUR:** Mild

**BOILING POINT C(F):** 169(337)

**MELTING POINT C(F):** -47(-53)

**FLASH POINT C(F):** 47(117) (ASTM D-56)

**FLAMMABILITY:** NA

**AUTO FLAMMABILITY:** NE

**EXPLOSIVE PROPERTIES:** NA

**OXIDIZING PROPERTIES:** NA

**COLOUR:** Colourless

**VAPOR PRESSURE-mmHg 20 C:** < 1.0

**VAPOR DENSITY:** 4.0

**EVAPORATION RATE:** NA

**RELATIVE DENSITY, 15/4 C:** 0.94

**SOLUBILITY IN WATER:** Complete

**VISCOSITY AT 40 C, cSt:** 2.6

**VISCOSITY AT 100 C, cSt:** NE

**FREEZING POINT C(F):** NE

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

**MATERIAL SAFETY DATA SHEET**

<b>PRODUCT: DI ACETONE ALCOHOL</b>
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**10. STABILITY AND REACTIVITY**

STABILITY (THERMAL, LIGHT, ETC.): Stable.  
CONDITIONS TO AVOID: Extreme heat.  
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidisers.  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.  
HAZARDOUS POLYMERIZATION: Will not occur.  
DANGEROUS WHEN WET: No

**11. TOXICOLOGICAL DATA**

ORAL TOXICITY (rats): LD50: 4 g/kg Practically non-toxic.  
DERMAL TOXICITY (rabbits): LD50: 5 g/kg Practically non-toxic.  
INHALATION TOXICITY (rats): Practically non-toxic (LC50: greater than 5mg/l). -Based on testing of similar products and/or the components.  
EYE IRRITATION (rabbits): Strong irritant. (Draize score: greater than 35 but 55 or less). ---Based on testing of similar products and/or the components.  
SKIN IRRITATION (rabbits): Irritant. (Primary Irritation Index: 3 or greater but less than 5). Based on testing of similar products and/or the components.

**12. ECOLOGICAL INFORMATION**

ENVIRONMENTAL FATE AND EFFECTS: Not established.

**13. DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL: Dispose of waste by supervised incineration in compliance with applicable laws and regulations.

**14. TRANSPORT INFORMATION**

NOTE: The flash point of this material is 47C.

PROPER SHIPPING NAME: DIACETONE ALCOHOL  
HAZARD CLASS: CLASS 3 FLAMMABLE LIQUID  
UN NUMBER: 1148  
PACKING GROUP: PG III  
POISON: Not Scheduled  
PLACARD: CLASS 3 DIAMOND  
HAZCHEM: 2YE

**LABELLING:**

RISK PHRASES 36  
SAFETY PHRASES 24, 25  
SYMBOL & HAZARD CLASS Xi IRRITANT  
HAZARDOUS SUBSTANCE 603-016-00-1 (EEC Number)

**15. REGULATORY INFORMATION**

SARA (311/312) REPORTABLE HAZARD CATEGORIES: FIRE ACUTE

The following product ingredients are cited on the lists below:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>LIST CITATIONS</u>
DIACETONE ALCOHOL	123-42-2	1, 10, 18, 19, 20, 21, 23, 25, 26

**MATERIAL SAFETY DATA SHEET****PRODUCT: DI ACETONE ALCOHOL**

## --- REGULATORY LISTS SEARCHED ---

1 = ACGIH ALL 6 = IARC 1 11 = TSCA 4 17 = CA P65 22 = MI 293  
2 = ACGIH A1 7 = IARC 2A 12 = TSCA 5a2 18 = CA RTK 23 = MN RTK  
3 = ACGIH A2 8 = IARC 2B 13 = TSCA 5e 19 = FL RTK 24 = NJ RTK  
4 = NTP CARC 9 = OSHA CARC 14 = TSCA 6 20 = IL RTK 25 = PA RTK  
5 = NTP SUS 10 = OSHA Z 15 = TSCA 12b 21 = LA RTK 26 = RI RTK

Code key: CARC = Carcinogen; SUS = Suspected Carcinogen

**16. OTHER INFORMATION**

USE: SOLVENT

INGREDIENT DESCRIPTION	PERCENT	CAS NUMBER
DIACETONE ALCOHOL	95-100	123-42-2

**CONTACT POINT: EMERGENCY No. 0419 341 095 any time**

**DISCLAIMER:** The information given in this data sheet is based on data supplied by the manufacturer and is, to the best of our knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use are beyond our control. The information and recommendations offered are for the user's consideration and it is the user's responsibility to satisfy themselves that they are suitable and complete for this particular purpose. We recommend that the safety and handling information presented in this data sheet be passed on, in an appropriate format, to your customers and handlers.