



## MATERIAL SAFETY DATA SHEET

2522 Plantation Center Drive  
Matthews, NC 28105  
(704) 845 9440

www.ciscochem.com

1. PRODUCT NAME: Diacetone Alcohol
2. CHEMICAL NAME: 4-Hydroxy-4-Methyl-2-Pentanone
3. SYNONYMS:
4. CAS NUMBER: 123-42-2
5. COMPOSITION: 2-Pentanone, 4-Hydroxy-4-methyl-  
Cas: 123-42-2  
100%

**IN CASE OF  
TRANSPORT EMERGENCY  
CONTACT CHEMTREC  
USA: 1-800-424-9300  
INTERNATIONAL: 1-703-527-3887**

6. PROPERTIES: APPEARANCE AND ODOR: Colorless, Mobile Liquid. Faint, pleasant odor.  
BOILING POINT: 342 F  
MELTING POINT: -47 F  
VAPOR PRESSURE (MM Hg/70 F): 0.85 @ 68 F  
VAPOR DENSITY (Air = 1): 4  
EVAPORATION RATE AND REF: (N-BU AC =1): 0.12  
SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 0.94  
SOLUBILITY IN WATER: Complete  
VOC: 100 % @ 7.79 lb/gal  
STABILITY: Stable  
HAZARDOUS POLYMERIZATION: Will not occur  
CONDITIONS TO AVOID (STABILITY): Avoid heat, flame and contact with strong oxidizing agents  
MATERIALS TO AVOID: Air, water, acids, bases, oxidizing agents (chlorine dioxide), aluminum  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and unidentified organic compounds may be formed during combustion.

7. HAZARDS: ROUTE OF ENTRY – EYES: Liquid is moderately irritating to the eyes. High vapor concentrations may also be irritating.  
ROUTE OF ENTRY – INHALATION: High vapor concentrations may cause CNS depression. Lower concentrations may irritate nose, throat, and respiratory tract.  
ROUTE OF ENTRY – SKIN: Liquid is minimally irritating to the skin. Prolonged or repeated liquid contact can result in de-fatting and drying of the skin which may result in skin irritation and dermatitis.  
ROUTE OF ENTRY – INGESTION: Liquid is moderately toxic and may be harmful if swallowed. May produce CNS depression.  
SIGNS/SYMPTOMS OF OVEREXPOSURE: Irritation as noted above. Early to moderate CNS (Central Nervous System) depression may be evidenced by giddiness, headache, dizziness and nausea. In extreme cases, unconsciousness and death may occur.  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

8. FIRE FIGHTING INFORMATION: FLASH POINT: 133 F  
FLASH POINT METHOD: TCC  
LOWER EXPLOSIVE LIMIT: 1.8 %  
UPPER EXPLOSIVE LIMIT: 6.9 %  
EXTINGUISHING MEDIA: Dry chemical, CO<sub>2</sub>, water fog, "alcohol" foam.  
SPECIAL FIRE FIGHTING PROCEDURES: Caution, Combustible. Don't enter confined fire space without full gear: helmet with face shield, bunker coats, gloves and rubber boots, including a positive pressure NIOSH approved self contained breathing apparatus. Cool fire exposed containers with water.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers exposed to intense heat from fires should



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be cooled within water to prevent vapor pressure build up which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

9. PERSONAL PROTECTION MEASURES: RESPIRATORY PROTECTION: Avoid prolonged or repeated breathing of vapors. If exposure may or does exceed occupational exposure limits use a NIOSH-approved respirator to prevent overexposure. In accord with 29 CFR 1810.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.  
PROTECTIVE CLOTHING: Avoid contact with eyes. Wear chemical goggles if there is likelihood of contact with eyes. Avoid prolonged or repeated contact with skin. Wear Chemical-Resistant gloves and other clothing as required to minimize contact.  
ADDITIONAL PROTECTIVE MEASURES: Use explosion-proof ventilation as required to control vapor concentrations. Air dry contaminated clothing in a well ventilated area then launder before reusing.  
VENTILATION GENERAL: To control fugitive emissions. Local/mechanical: In Confined spaces. Make-up air: To balance air exhaust.  
PROTECTIVE GLOVES: impervious (Butyl Rubber)  
EYE PROTECTION: Chemical safety goggles  
OTHER PROTECTIVE EQUIPMENT: Impervious clothing (apron, coveralls)  
WORK HYGIENIC PRACTICES: Use good personal hygiene.  
SUPPL. SAFETY & HEALTH DATA:  
DENSITY: 940 KG/cubic meter. Empty containers are hazardous, may contain flammable/explosive liquid residue/vapors.

10. FIRST AID PROCEDURES: Eyes: Flush w/water for at least 15 minutes while holding eyelids open. Get medical attention.  
Skin: Wash contaminated skin w/mild soap and water. Obtain medical attention in all cases.  
Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.  
Ingestion: Do not give liquids if victim is unconscious or very drowsy, and guard against aspiration into lungs by having individual turn on left side.. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30cc (2 tablespoons) syrup of ipecac\*. If ipecac is unavailable, give 2 glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Get medical attention.  
\*Note to Physician: If victim is a child, give no more than 1 glass of water and 15cc (1 tablespoon) syrup of ipecac. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

11. EXPOSURE LIMITS: OSHA PEL: 50 ppm, 240 mg/cum  
ACGIH TLV: 50 ppm, 328 mg/cum  
Other Recommended Limita: 50 ppm

12. TOXICOLOGICAL INFORMATION: Signs/Symptoms Of Overexposure: Irritation as noted above. Early to moderate CNS (Central Nervous System) depression may be evidenced by giddiness, headache, dizziness and nausea. In extreme cases, unconsciousness and death may occur.

13. ECOLOGICAL INFORMATION: NE

14. DISPOSAL CONSIDERATIONS: Under EOA-RCRA (40 CFR 261.21) if this product becomes a waste material, it would be ignitable hazardous waste material, hazardous waste number D001. Refer to latest EPA or state regulations regarding proper disposal.

15. CARCINOGENIC NE  
PROPERTIES &  
NOTIFICATIONS:

16. TRANSPORT DEPARTMENT OF TRANSPORTATION CLASSIFICATION: Class 3 (Flammable Liquids), III The  
INFORMATION: DOT information in this section is based upon an evaluation of the product against the requirements of 49  
CFR 172 and 173 as revised by HM-181.  
DOT PROPER SHIPPING NAME: Diacetone Alcohol  
OTHER REQUIREMENTS: UN1148, Guide 26

17. HANDLING & PRECAUTIONS – HANDLING/STORING: Store in cool/dry/well ventilated area. Aluminum containers  
STORAGE: are not recommended for storage. Avoid skin contact. Empty containers are hazardous.  
OTHER PRECAUTIONS: Don't allow to enter storm/sanitary sewers/lakes/rivers/streams/public water-  
ways. Block off drains/ditches. Spill area must be cleaned and restored to original condition or to the  
satisfaction of authorities.  
SPECIAL PRECAUTIONS: Keep liquid and vapor away from heat, sparks and flame. Surfaces that are  
sufficiently hot may ignite even liquid product in the absents of sparks and flame. Extinguish pilot lights,  
cigarettes and turn off other sources of ignition prior to use and until all vapors are gone. Vapors may ac-  
cumulate and travel to ignition sources distant from the handling site. Flash-fire can result. Keep contain-  
ers closed when not in use. Use with adequate ventilation.  
Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld  
or perform similar operations on or near containers. Do not pressurize drum containers to empty them.  
Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground  
transfer containers and equipment.  
Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facili-  
ties. Launder contaminated clothing before reuse. Air-dry contaminated clothing in a well ventilated area  
before laundering.

18. ACCIDENTAL STEPS IF MATERIAL RELEASED/SPILL: Caution. Combustible. \*\*\*Large Spills\*\*\* Eliminate  
RELEASE potential sources of ignition. Wear appropriate respirator and other protective clothing. Shut off source of  
MEASURES: leak only if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage ves-  
sels. Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking  
containers and seal tightly for proper disposal. Flush area with water to remove trace residue; dispose of  
flush solution as above. \*\*\* Small Spills\*\*\* take up with an absorbent material and place in non-leaking  
containers for proper disposal.

19. REGULATORY This product is listed on the EPA/TSCA inventory of chemical substances. Protection of stratospheric  
INFORMATION: ozone (pursuant to section 611 of the clean air act amendments of 1990); Per 40 CFR part 82, this product  
does not contain nor was it directly manufactured with and class I or class II ozone depleting substances.  
Common Name: 199259 Diacetone Alcohol  
Chronic Hazard: Yes  
Signal Word: Danger!  
Acute Health Hazard-Severe: X  
Contact Hazard-Slight: X  
Fire Hazard-Severe: X  
Reactivity Hazard-Slight: 0  
Special Hazard Precautions  
Eyes: Irritation.  
Skin: De-fatting, dermatitis, and irritation.  
Inhalation: CNS depression. Accidental ingestion is the most likely route of exposure as the material is  
poorly and incompletely absorbed through skin.



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Target Organs: Skin, Eyes, Central Nervous System.

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y