

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

ACETONE ALCOHOL

(For Synthesis)

(Decolourizer 50% Solution)

MSDS CAS: 116-09-6

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: Acetone-Alcohol, 1:1, Decolorizer

CAS#: Mixture.

Synonym: Acetone-Alcohol, 1:1, Decolorizer.

Chemical Name: Not applicable.

Chemical Formula: Not applicable.

Brand : OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Acetone	67-64-1	50
Ethyl alcohol 200 Proof	64-17-5	45
Isopropyl alcohol	67-63-0	2.5
Methyl alcohol	67-56-1	2.5

Toxicological Data on Ingredients: Acetone: ORAL (LD50): Acute: 5800 mg/kg [Rat]. 3000 mg/kg [Mouse].
5340 mg/kg

Section 2: Composition and Information on Ingredients (Continued)

[Rabbit]. VAPOR (LC50): Acute: 50100 mg/m 8 hours [Rat]. 44000 mg/m 4 hours [Mouse]. Ethyl alcohol 200 Proof: ORAL (LD50): Acute: 7060 mg/kg [Rat.]. 3450 mg/kg [Mouse]. VAPOR (LC50): Acute: 20000 ppm 8 hours [Rat]. 39000 mg/m 4 hours [Mouse]. Isopropyl alcohol: ORAL (LD50): Acute: 5045 mg/kg [Rat]. 3600 mg/kg [Mouse]. 6410 mg/kg [Rabbit]. DERMAL (LD50): Acute: 12800 mg/kg [Rabbit]. Methyl alcohol: ORAL (LD50): Acute: 5628 mg/kg [Rat.]. DERMAL (LD50): Acute: 15800 mg/kg [Rabbit.].

Section 3: Hazards Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH [Acetone]. Classified PROVEN by State of California Proposition 65 [Ethyl alcohol 200 Proof]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Ethyl alcohol 200 Proof]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Isopropyl alcohol]. Classified 4 (No evidence.) by NTP, None. by OSHA [Methyl alcohol]. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. [Acetone]. Mutagenic for bacteria and/or yeast. [Acetone]. Mutagenic for mammalian somatic cells. [Ethyl alcohol 200 Proof]. Mutagenic for bacteria and/or yeast. [Ethyl alcohol 200 Proof]. TERATOGENIC EFFECTS: Classified PROVEN for human [Ethyl alcohol 200 Proof]. Classified POSSIBLE for human [Methyl alcohol]. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED] [Acetone-Alcohol, 1:1, Decolorizer]. The substance may be toxic to blood, the reproductive system, liver, heart, cardiovascular system, upper respiratory tract, skin. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Section 4: First Aid Measures (Continued)

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Serious Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: The lowest known value is 363°C (685.4°F) (Ethyl alcohol 200 Proof).

Flash Points: CLOSED CUP: Between -18°C (0°F) and 23°C (73°F).

Flammable Limits: The greatest known range is LOWER: 6% UPPER: 36.5% (Methyl alcohol)

Products of Combustion: These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of Various Substances: Highly flammable in presence of open flames and sparks, of shocks, of heat. Slightly flammable to flammable in presence of oxidizing materials, of combustible materials.

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks, of oxidizing materials, of acids.

Fire Fighting Media and Instructions: Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards: Extremely Flammable Liquid and Vapor. When ignited, this material can burn with an invisible flame.

Special Remarks on Explosion Hazards: Forms explosive mixtures with hydrogen peroxide, acetic acid, nitric acid, nitric acid + sulfuric acid, chromic anhydride, chromyl chloride, nitrosyl chloride, hexachloromelamine, nitrosyl perchlorate, nitryl perchlorate, permonosulfuric acid, thiodiglycol + hydrogen peroxide, potassium ter-butoxide, sulfur dichloride, 1-methyl-1,3-butadiene, bromoform, carbon, air, chloroform, thitriazylperchlorate. (Acetone)

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Section 6: Accidental Release Measures

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill:

Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Keep locked up.. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, acids, alkalis, moisture.

Storage: Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above 23°C (73.4°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 8: Exposure Controls/Personal Protection (Continued)

Exposure Limits: Acetone TWA: 500 STEL: 750 (ppm) from ACGIH (TLV) [United States] [1999] TWA: 750 STEL: 1000 (ppm) from OSHA (PEL) [United States] TWA: 500 STEL: 1000 [Australia] TWA: 1185 STEL: 2375 (mg/m³) [Australia] TWA: 750 STEL: 1500 (ppm) [United Kingdom (UK)] TWA: 1810 STEL: 3620 (mg/m³) [United Kingdom (UK)] Ethyl alcohol 200 Proof TWA: 1000 (ppm) from ACGIH (TLV) [United States] [1999] TWA: 1000 (ppm) from OSHA (PEL) [United States] TWA: 1900 (mg/m³) from OSHA (PEL) [United States] TWA: 1000 (ppm) from NIOSH TWA: 1000 (ppm) [United Kingdom (UK)] TWA: 1920 (mg/m³) [United Kingdom (UK)] TWA: 1000 STEL: 1250 (ppm) [Canada] Isopropyl alcohol TWA: 983 STEL: 1230 (mg/m³) [Australia] TWA: 200 STEL: 400 (ppm) from ACGIH (TLV) [United States] [1999] TWA: 980 STEL: 1225 (mg/m³) from NIOSH TWA: 400 STEL: 500 (ppm) from NIOSH TWA: 400 STEL: 500 (ppm) [United Kingdom (UK)] TWA: 999 STEL: 1259 (mg/m³) [United Kingdom (UK)] TWA: 400 STEL: 500 (ppm) from OSHA (PEL) [United States] TWA: 980 STEL: 1225 (mg/m³) from OSHA (PEL) [United States] Methyl alcohol TWA: 200 from OSHA (PEL) [United States] TWA: 200 STEL: 250 (ppm) from ACGIH (TLV) [United States] [1999]3

Section 9: Physical and Chemical Properties

Physical state and appearance	: Liquid.
Odor	: Not available.
Taste	: Not available.
Molecular Weight	: Not available.
Color	: Clear Colorless.
pH (1% soln/water)	: Not available.
Boiling Point	: The lowest known value is 56.2°C (133.2°F) (Acetone). Weighted average: 67.1°C (152.8°F)
Melting Point	: May start to solidify at -88.5°C (-127.3°F) based on data for: Isopropyl alcohol. Weighted average: -103.68°C (-154.6°F)
Critical Temperature	: The lowest known value is 235°C (455°F) (Acetone).
Specific Gravity	: Weighted average: 0.79 (Water = 1)
Vapor Pressure	: The highest known value is 24 kPa (@ 20°C) (Acetone). Weighted average: 15.01 kPa (@ 20°C)
Vapor Density	: The highest known value is 2.07 (Air = 1) (Isopropyl alcohol). Weighted average: 1.8 (Air = 1)
Volatility	: Not available.
Odor Threshold	: The highest known value is 100 ppm (Ethyl alcohol 200 Proof) Weighted average: 79.58 ppm.
Water/Oil Dist. Coeff.	: The product is equally soluble in oil and water

Section 9: Physical and Chemical Properties (Continued)

Ionicity (in Water)	: Non-ionic.
Dispersion Properties	: See solubility in water, methanol, diethyl ether, n-octanol, acetone.
Solubility	: Easily soluble in cold water, hot water, n-octanol. Soluble in methanol, diethyl ether, acetone.

Section 10: Stability and Reactivity Data

Stability : The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources, incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, reducing agents, acids, alkalis. Slightly reactive to reactive with metals.

Corrosivity : Non-corrosive in presence of glass.

Special Remarks on Reactivity: Ethanol rapidly absorbs moisture from the air. Can react vigorously with oxidizers. The following oxidants have been demonstrated to undergo vigorous/explosive reaction with ethanol: barium perchlorate, bromine pentafluoride, calcium hypochlorite, chloryl perchlorate, chromium trioxide, chromyl chloride, dioxygen difluoride, disulfuryl difluoride, fluorine nitrate, hydrogen peroxide, iodine heptafluoride, nitric acid nitrosyl perchlorate, perchloric acid permanganic acid, peroxodisulfuric acid, potassium dioxide, potassium perchlorate, potassium permanganate, ruthenium(VIII) oxide, silver perchlorate, silver peroxide, uranium hexafluoride, uranyl perchlorate. Ethanol reacts violently/expodes with the following compounds: acetyl bromide (evolves hydrogen bromide) acetyl chloride, aluminum, sesquibromide ethylate, ammonium hydroxide & silver oxide, chlorate, chromic anhydride, cyanuric acid + water, dichloromethane + sulfuric acid + nitrate (or) nitrite, hydrogen peroxide + sulfuric acid, iodine + methanol + mercuric oxide, manganese perchlorate + 2,2-dimethoxy propane, perchlorates, permanganates + sulfuric acid, potassium superoxide, potassium tert-butoxide, silver & nitric acid, silver perchlorate, sodium hydrazide, sulfuric acid + sodium dichromate, tetrachlorosilane + water. Ethanol is also incompatible with platinum, and sodium. (Ethyl alcohol 200 Proof)

Special Remarks on Corrosivity: Not available.

Polymerization : Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact. Inhalation.

Toxicity to Animals: Acute oral toxicity (LD50): 3000 mg/kg [Mouse]. (Acetone). Acute dermal toxicity (LD50): 12800 mg/kg [Rabbit]. (Isopropyl alcohol).

Section 11: Toxicological Information (Continued)

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH [Acetone]. Classified PROVEN by State of California Proposition 65 [Ethyl alcohol 200 Proof]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Ethyl alcohol 200 Proof]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Isopropyl alcohol]. **MUTAGENIC EFFECTS:** Mutagenic for mammalian somatic cells. [Ethyl alcohol 200 Proof]. Mutagenic for bacteria and/or yeast. [Ethyl alcohol 200 Proof]. Mutagenic for mammalian somatic cells. [Methyl alcohol]. Mutagenic for bacteria and/or yeast. [Methyl alcohol]. **TERATOGENIC EFFECTS:** Classified PROVEN for human [Ethyl alcohol 200 Proof]. Classified POSSIBLE for human [Methyl alcohol]. **DEVELOPMENTAL TOXICITY:** Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED] [Acetone-Alcohol, 1:1, Decolorizer]. May cause damage to the following organs: blood, kidneys, the reproductive system, liver, upper respiratory tract, skin.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May cause adverse reproductive effects and birth defects. May affect genetic material. May cause cancer based on animal data.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: **Skin:** Causes skin irritation. **Eyes:** Causes eye irritation. **Inhalation:** Inhalation at high concentrations affects the sense organs, causes respiratory tract irritation. It also may the brain, Central Nervous System behavior (CNS depression characterized by amnesia, dizziness, drowsiness, confusion, headache, fatigue, changes in mood/personality, excessive talking, somnolence, coma/narcosis, hallucinations, muscle weakness, and possibly motor incoordination, speech abnormalities, stupor, tremors, staggering gait, mild euphoria, slurred speech, narcotic effects), peripheral nervous system (spastic paralysis), vision (diplopia). Inhalation may also affect the gastrointestinal tract (nausea, vomiting). **Ingestion:** May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea, and alterations in gastric secretions. It may also affect the Central Nervous System/behavior with symptoms similar to inhalation as well the blood, metabolism, liver, and urinary system (kidney, bladder, ureter) endocrine system, cardiovascular system (cardiac arrhythmias, hypotension), and respiration. Contains Methanol, which may cause blindness if swallowed **Chronic Potential Health Effects:** **Skin:** Repeated or prolonged skin contact may cause dermatitis, an allergic skin reaction. **Inhalation:** May cause effects similar to those of acute inhalation. **Ingestion:** Prolonged or repeated ingestion will have similar effects as acute ingestion. It may also affect the brain.

Section 12: Ecological Information

Ecotoxicity: Not available.

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Section 12: Ecological Information (Continued)

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

UN N° : 1993

H.I. nr : 30

ADR - Class : 3

Sea transport (IMDG) [English only]

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

UN N° : 1993

IMO-IMDG - Class or division : 3 : Flammable liquid.

IMO-IMDG - Packing group : III

Air transport (ICAO-IATA) [English only]

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

UN N° : 1090

IATA - Class or division : 3 : Flammable liquid.

IATA - Packing group : III

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Section 15: Other Regulatory Information

Federal and State Regulations: Connecticut hazardous material survey.: Acetone; Methyl alcohol Illinois toxic substances disclosure to employee act: Acetone; Methyl alcohol Illinois chemical safety act: Acetone; Methyl alcohol New York release reporting list: Acetone; Methyl alcohol Rhode Island RTK hazardous substances: Acetone; Ethyl alcohol 200 Proof; Isopropyl alcohol; Methyl alcohol Pennsylvania RTK: Acetone; Ethyl alcohol 200 Proof; Isopropyl alcohol; Methyl alcohol Florida: Acetone; Ethyl alcohol 200 Proof; Isopropyl alcohol Minnesota: Acetone; Isopropyl alcohol; Methyl alcohol Massachusetts RTK: Acetone; Ethyl alcohol 200 Proof; Isopropyl alcohol; Methyl alcohol Massachusetts spill list: Acetone; Methyl alcohol New Jersey: Acetone; Ethyl alcohol 200 Proof; Isopropyl alcohol; Methyl alcohol New Jersey spill list: Acetone; Methyl alcohol Louisiana spill reporting: Acetone; Methyl alcohol TSCA 8(b) inventory: Acetone; Ethyl alcohol 200 Proof; Isopropyl alcohol; Methyl alcohol TSCA 4(a) final test rules: Acetone TSCA 4(a) final testing order: Isopropyl alcohol TSCA 8(a) IUR: Acetone TSCA 8(d) H and S data reporting: Isopropyl alcohol: Effective date: 12/15/86 Sunset Date: 12/15/96 TSCA 12(b) one time export: Isopropyl alcohol TSCA 12(b) annual export notification: Acetone SARA 313 toxic chemical notification and release reporting: Isopropyl alcohol 2.5%; Methyl alcohol 2.5% CERCLA: Hazardous substances.: Acetone: 5000 lbs. (2268 kg); Methyl alcohol: 5000 lbs. (2268 kg);

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):

R11- Highly flammable. R36- Irritating to eyes. S7- Keep container tightly closed. S16- Keep away from sources of ignition- No smoking. S24/25- Avoid contact with skin and eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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