

Section 1: Identification

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| Product Name | Acetone NF |
| Commercial Name | N/A |
| Product Use | General purpose organic solvent |
| Restrictions On Use | Not available. |
| Product Code | 50-1888 |
| Company | PCCA 9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760 |
| | In case of emergency contact: CHEMTREC (24hr) 1-800-424-9300 |

Section 2: Hazard(s) Identification

OSHA Haz Com: Serious eye damage/Eye irritation (Category 2) Flammable Liquids (Category 2) Specific target organ toxicity - single exposure (Category 3 narcotic effects)

CFR 1910.1200

Signal Word DANGER

Hazard Statement(s) Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

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| Prevention | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection. |
| Response | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish. |
| Storage | Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |

Section 3: Composition/Information on Ingredients

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| Substance/Mixture | Substance |
| Components | Acetone NF |
| % By Weight | 100 |
| CAS# | 67-64-1 |
| Molecular Weight | 58.08 g/mole |
| Chemical Formula | C3-H6-O |
| Synonym(s) | 2-propanone; Dimethyl Ketone; Dimethylformaldehyde; Pyroacetic Acid |

| Mixtures Name | CAS# | % by Weight | TLV/PEL | LC50/LD50 |
|----------------------|-------------|--------------------|---|--|
| Acetone | 67-64-1 | 100 | TWA: 500 STEL: 750 (ppm) from ACGIH (TLV) [United States] TWA: 750 STEL: 1000 (ppm) from OSHA (PEL) [United States] TWA: 500 STEL: 1000 [Austalia] TWA: 1185 STEL: 2375 (mg/m3) [Australia] TWA: 750 STEL: 1500 (ppm) [United Kingdom (UK)] TWA: 1810 STEL: 3620 (mg/m3) [United Kingdom (UK)] TWA: 1800 STEL: 2400 from OSHA (PEL) [United States] | ORAL (LD50): Acute: 5800 mg/kg [Rat]. 3000 mg/kg [Mouse]. 5340 mg/kg [Rabbit]. VAPOR (LC50): Acute: 50100 mg/m3 8 hours [Rat]. 44000 mg/m3 4 hours [Mouse]. |

Section 4: First-Aid Measures

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| Inhalation | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist. |
| Skin Contact | Rinse skin with water/shower. Get medical attention if irritation develops and persists. |
| Eye Contact | Rinse with water. If eye irritation persists: Get medical advice/attention. |
| Ingestion | Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. Get medical attention if symptoms occur. |
| Symptoms/Effects | |
| Acute | Irritant effects. Narcotic effects. |
| Delayed | Irritant effects. Narcotic effects. |

Immediate Medical Attention

Treat symptomatically. Treatment of acetone overdose should be symptomatic and supportive and may include the following: Consider insertion of a nasogastric tube to aspirate stomach contents, only after recent large ingestions. Do not induce vomiting because of potential for central nervous system depression and aspiration. Activated charcoal is of limited benefit. Monitor urine output and fluid intake in symptomatic patients. Monitor blood glucose, serum acetone, and urine ketones. Monitor blood gasses if respiratory depression is present. Hemodialysis can enhance acetone elimination but should generally only be considered in patients with hemodynamic instability unresponsive to supportive care.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

Products of Combustion

By heating and fire, harmful vapors/gases may be formed.

Firefighters Special Equipment and Precautions

Wear suitable protective equipment. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Use water spray to cool unopened containers. Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6: Accidental Release Measures

Keep unnecessary personnel away. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear appropriate personal protective equipment. Avoid inhalation of vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS. Methods and materials for containment and cleaning up: Absorb spillage with suitable absorbent material. For waste disposal, see section 13 of the SDS. Remove sources of ignition. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Clean surface thoroughly to remove residual contamination. Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

Section 7: Handling and Storage

Handling: As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential. **Storage:** Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

Section 8: Exposure Controls/Personal Protection

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| Exposure Limits | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000): PEL 2400 mg/m ³ , 1000 ppm US. ACGIH Threshold Limit Values: STEL 500 ppm, TWA 250 ppm US. NIOSH: Pocket Guide to Chemical Hazards: TWA 590 mg/m ³ , 250 ppm |
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Engineering Controls

For laboratory operations, use good technique and limit open handling. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.

Personal Protection

Eye/face protection: Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available. **Skin protection** **Hand protection:** Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. **Other:** Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. **Respiratory protection:** Respirators are generally not required for laboratory operations. Chose respiratory protection appropriate to the task and the level of existing engineering controls. **Thermal hazards:** Wear appropriate thermal protective clothing, when necessary. **General hygiene consideration:** Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment.

Section 9: Physical and Chemical Properties

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| Appearance | Colorless clear liquid | | |
| Odor | Characteristic | | |
| Odor Threshold | 62 ppm (detectable); 130 ppm (recognizable) | | |
| Melting Point | 133.16 °F (56.2 °C) | pH | Not available |
| Freezing Point | -138.46 °F (-94.7 °C) | Vapor Pressure | 180 mm Hg |
| Boiling Point/Range | 56°C (133°F) | Vapor Density | 2 (air = 1) |
| Decomposition temperature | Not pertinent | Viscosity | Not available |
| Partition Coefficient: n-octanol/water | -0.24 | Evaporation Rate | 7.7 (butyl acetate = 1) |
| Flash Point | -4.0 °F (-20.0 °C) Closed Cup | Autoignition temperature | 869 - 1004 °F (465 - 540 °C) |
| Flammability | Not available | Flammability or Explosive Limits: | |
| | | Lower | 2.6%V |
| | | Upper | 12.8%V |
| Solubility(ies) | Miscible in water. | | |
| Other | Alcohol: Soluble. Benzene: Soluble. Chloroform: Soluble. Ether: Soluble Chemical family Ketone. Dynamic viscosity 0.27 mPa.s (104 °F (40 °C)) Heat of combustion (NFPA 30B) 27.7 kJ/g Molecular formula C ₃ H ₆ O Molecular weight 58.08 Specific gravity 0.79 at 20 °C Surface tension 23.7 mN/m (68 °F (20 °C)) | | |

Section 10: Stability and Reactivity

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| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical Stability | The product is stable under recommended storage conditions. |
| Hazardous Polymerization | No dangerous reaction known under conditions of normal use |
| Conditions to Avoid | Contact with incompatible materials. Flames. Heat. Sparks. |
| Incompatible Materials | Strong oxidizing agents. Strong reducing agents. Halogenated materials. Acids. Strong bases. |
| Hazardous Decomposition Products | Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. |

Section 11: Toxicological Information

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| RTECS | AL3150000 |
| Acute Toxicity | Acute Dermal LD50 Rabbit 20000 mg/kg Inhalation LC50 Rat 76 mg/l, 4 hours Oral LD50 Rat 5800 mg/kg |
| Skin Corrosion/Irritation | Not available |
| Serious Eye Damage/Irritation | Causes serious eye irritation. |
| Respiratory or Skin Sensitization | Not available. |
| Germ Cell Mutagenicity | Not available. |
| Carcinogenicity | Not available. |
| Reproductive Toxicity | Not available. |

Routes of Entry

Inhalation. Skin. Eye.

Symptoms Related to Exposure

Gastrointestinal disturbances. Fatigue. Headache. Vomiting. Dizziness. Weakness. Drowsiness.

Potential Health Effects

Not available.

Target Organ(s)

Narcotic effects.

Section 12: Ecological Information**Ecotoxicity**

Aquatic Crustacea EC50 Water flea (Daphnia magna) 10294 - 17704 mg/l, 48 hours Fish LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss) 4740 - 6330 mg/l, 96 hours

Persistence and Degradability

Not available.

Bioaccumulative Potential

Octanol/water partition coefficient log Kow -0.24

Mobility in Soil

Not available.

Other Adverse Effects

Not available.

Section 13: Disposal Considerations**Waste Disposal**

Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. D001: Waste Flammable material with a flash point <140 F Hazardous waste code US RCRA Hazardous Waste U List: Reference: Acetone (CAS 67-64-1) U002 Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions)

Disposal of Container

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Other Considerations

Not available.

Section 14: Transport Information**DOT Classification**

UN number: UN1090 UN proper shipping name: Acetone Transport hazard class(es) Class 3 Subsidiary risk - Packing group II Packaging exceptions 150 Packaging non bulk 202 Packaging bulk 242

Section 15: Regulatory Information**Regulations**

US federal regulations: CERCLA/SARA Reportable Quantity: 5000 pounds (2270 kg) Class 1B Flammable liquid This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Acetone (CAS 67-64-1) Listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. Superfund Amendments and Reauthorization Act of 1986 (SARA) Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Hazard categories SARA 302 Extremely hazardous substance Not listed. Yes SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Not regulated. Safe Drinking Water Act (SDWA) Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number Acetone (CAS 67-64-1) 6532 Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) Acetone (CAS 67-64-1) 35 %WV DEA Exempt Chemical Mixtures Code Number Acetone (CAS 67-64-1) 6532 FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace Acetone (CAS 67-64-1) Low priority US state regulations US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a)) Acetone (CAS 67-64-1

Other

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Section 16: Other Information

The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.