

MATERIAL SAFETY DATA SHEET

Manufacturer: Volu-Sol * 5095 West 2100 South* Salt Lake City, UT 84120
(800) 821-2495 * 24hr Emergency Call * (800) 535-5053

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SECTION I

PRODUCT NAME: Acetone
DATE OF REVISION: 05-01-00

SIZE: Various

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

| PRINCIPAL HAZARDOUS COMPONENT (S): | % | OSHA PEL | ACGIH TLV (ppm) |
|---|----------|-----------------|------------------------|
| Acetone CAS# 67-64-1 | 100 | 750 | 750 750 |

SECTION III PHYSICAL DATA

BOILING POINT (°F): 133
VAPOR PRESSURE mm Hg./20 DEG C: 184
VAPOR DENSITY (AIR=1): 2.0
SOLUBILITY IN WATER: 100%

SPECIFIC GRAVITY:(H₂O=1) 0.79
PERCENT VOLATILE BY VOLUME:
EVAPORATION RATE (ether =1): 14
APPEARANCE AND ODOR:
Clear, colorless liquid; sweet odor

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used):
120°F (TCC) (TOC)

FLAMMABLE LIMITS: LeL UeL
2.5% 13%

EXTINGUISHING MEDIA: Water SPRAY ONLY, dry chemical, co2 or "Alcohol" foam

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self contained breathing apparatus and full protective clothing. Use water to cool near- by containers and structures exposed to fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Acetone is extremely flammable.

Extinguish all nearby sources of ignition. Avoid accumulation of water or Acetone vapors because aqueous solution containing more than 2.5% Acetone are flammable.

SECTION V REACTIVITY DATA

STABILITY: STABLE **INCOMPATIBILITY:** (Materials to Avoid): Acids, oxidizing materials, ammonia aldehydes, chlorinated compounds.

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: May liberate carbon monoxide, carbon dioxide and unidentified organic compounds in black smoke.

HAZARDOUS POLYMERIZATION: Will Not Occur.

CONDITIONS TO AVOID: Heat,, sparks, open flame.

SECTION VI HEALTH HAZARD DATA

| | | | |
|-------------------------|-------------|------------|--------------|
| EXPOSURE LIMITS: | PEL | TLV | OTHER |
| (skin) | 750 | 750 | 1000 |
| | AGIH (STEL) | | |

EFFECTS OF OVEREXPOSURE: Skin rash, headache, dizziness, GI cramps, nausea, eye, nose and throat irritation, convulsions, and in extreme cases unconsciousness and death.

Note: Use of alcoholic beverages enhances toxic effects.

ROUTE (S) OF ENTRY

EMERGENCY AND FIRST AID PROCEDURES

| | |
|-------------------|---|
| EYE: | Irrigate immediately with water for 15 minutes. Call physician. |
| SKIN: | Flush with soap and water immediately. |
| BREATH: | Move to fresh air. Give artificial respiration if needed. Call physician. |
| INGESTION: | Give large volumes of water and induce vomiting. Call physician. |

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Mop up small spills and dispose of in DOT approved waste containers. Large spills should be diked with soil or non-combustible absorbent material.

WASTE DISPOSAL METHOD: All liquid or contaminated absorbent should be disposed of in DOT approved waste containers. Comply with all applicable Federal, State and local regulations for disposal of this material.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify Type): None for normal use.

VENTILATION: Mechanical Exhaust

PROTECTIVE GLOVES: Chemical Resistant

EYE PROTECTION: Chemical goggles. DO NOT wear contact lenses.

OTHER PROTECTIVE EQUIPMENT: Good laboratory safety practices indicate Lab coats, hand and eye protection.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from heat, sparks and flames. Store in cool, dry, well ventilated area away from incompatible materials. Vent container frequently in warm weather to relieve pressure. Electrically ground all equipment when handling this product. Use only non-sparking tools and equipment. Keep tightly closed when not in use.

OTHER PRECAUTIONS: Do not get in eyes, on skin or clothing. Wash thoroughly after use.

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