

MSDS

Material Safety Data Sheet



24 HOUR EMERGENCY
TELEPHONE NUMBER
CALL CHEMTREC
1-800-424-9300

189 Twin County Road • Morgantown, PA 19543 • (610) 524-5810

Section I: IDENTIFICATION

Date Prepared: 10 January 2007

Product Name: **Acetone** *Item Number(s):* ES600, ES600-16, ES600-32

Emergency Phone: 800-424-9300

Section II: COMPOSITION

Component(s): CAS Number OSHA PEL, ACGIH TLV/STEL ppm NFPA

Acetone 100% 67-64-1 750 750/1000 Health 1

Flammability 3

Reactivity 0

Section III: PHYSICAL DATA

Boiling Point: 57°F *Specific Gravity (H₂O = 1):* 0.8

Vapor Pressure mm Hg/20°C: 40 *Percent Volatile by Vol:* 96%

Vapor Density (Air 1:1): 1.6 *Evaporation Rate (ether = 1):* ~1

Solubility in H₂O: Complete *Appearance & Odor:* Clear liquid/pungent odor

Section IV: FIRE/EXPLOSION HAZARD

Flash Point: 0°F TCC *Flammable Limits:* LEL NR UEL NR

Extinguishing Media: Water spray, dry chemical, CO₂ and foam for alcohol

Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus.

Products of combustion may be harmful in a fire situation. Do not use direct water stream.

Unusual Fire & Explosion Hazards: Eliminate sources of ignition. Burns with invisible flame.

Section V: REACTIVITY

Stability: Stable *Material to Avoid:* Strong oxidizers, chromic anhydride, perchloric acids etc.

Hazardous Decomposition or Byproducts: Oxides of carbon and nitrogen

Hazardous Polymerization: Does not occur *Conditions to Avoid:* Excessive heat, sparks or flames.

Section VI: HEALTH HAZARDS

Routes of Entry: Inhalation, Skin and Ingestion *Target Organs:* Kidneys, nervous system, liver and eyes

Acute: Vapors may cause eyes, skin and respiratory irritation, drowsiness, nausea, headache and vomiting.

Chronic: May cause liver, heart and kidney damage. May cause gastrointestinal disturbances and convulsions.

Carcinogenicity: Not classified as a human carcinogen.

Signs/Symptoms of Exposure: Vision blurring, drowsiness and headache.
incorporated

Section VI: HEALTH HAZARDS

Emergency First Aid:

Skin: Remove contaminated clothing. Wash affected area with soap and water.

Eyes: Thoroughly flush eyes with water. Contact a physician if irritation persist.

Ingestion: Rinse mouth thoroughly with water, provided person is conscious and contact a physician.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

Section VII: SAFE HANDLING

Chemical Release or Spill: Eliminate source of ignition in the vicinity of the spill or released vapor. Isolate the spill area with sand, or other absorbent material. Place all contaminated material in close container for disposal.

Waste Disposal Method: All liquid and or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggested method of disposal. Comply with all Federal, State and Local regulations for disposal.

Precautions for Handling and Storing: Use precautions for flammable liquids. Avoid excessive heat and sources of ignition. For larger quantities, store in flammable safety cabinet. Use in well- ventilated area.

Section VIII: CONTROL MEASURES

Respiratory Protection: Not normally required. If used in a poorly ventilated area use under an approved fume hood or NIOSH approved respirator.

Ventilation: Special flammable exhaust hood if vapor concentration is high. In well- ventilated areas, mechanical exhaust is sufficient.

Protective Gloves: Chemical resistant *Eye Protection:* Safety glasses

Other Protective Clothing or Equipment: Normal laboratory apparel suggested by Good Laboratory Practices

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

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