

HALL CHEM MFG. INC.1270 rue Nobel
Boucherville Qc J4B 5H1

Tel. : (450) 645-0296

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MATERIAL SAFETY DATA SHEET**EMERGENCY : CANUTEC (613) 996-6666****MSDS : 1202-2****PRODUCT IDENTIFICATION AND USE****NAME OF PRODUCT :** Technical acetone**USE OF PRODUCT :** Chemical solvent, degreasing agent**TRANSPORTATION OF DANGEROUS GOODS****SHIPPING NAME :** Acetone**WHMIS:** B2, D2B**P.N.I. :** UN1090**PRIMARY CLASS :** 3 flammable liquid**PACKING GROUP :** II**SUBSIDIARY CLASS :****COMPONENTS**

| COMPOSITION | % V/V | CASE # | LD ₅₀ mg/kg Oral/rat | LC ₅₀ ppm 4h | TLV ppm 8h |
|-------------|-------|---------|------------------------------------|-------------------------|------------|
| acetone | 100 | 67-64-1 | >9700 | >1600 | 500 |

PHYSICAL CHARACTERISTICS

| | | | |
|---|--|--|---------------------------------|
| PHYSICAL STATE : Liquid | APPEARANCE : Colorless | ODOR : Ketone | ODORTRESHOLD : 62 ppm |
| VAPOR TENSION : >181,0 mm Hg à 20°C | VAPOR DENSITY (air = 1) : 2,0 | EVAPORATING RATE (butyl acetate = 1) : 11,6 | |
| BOILING RANGE : 57°C | FREEZING POINT : -94°C | pH : 7,0 | |
| DENSITY (20°C): 0,792 | DISTRIBUTION FACTOR WATER/OIL : 0,6 | SOLUBILITY IN WATER (25°C) : 100% | |

REACTIVITY DATA**CHEMICAL STABILITY :** Stable**INCOMPATIBILITY WITH OTHER PRODUCTS :** Acids, oxidizing agents, chloroform, alkalis, chlorine compounds, potassium t-butoxide and humidity.**REACTIVITY CONDITIONS :** Avoid excessive heat, open flames and all ignition sources. No hazardous polymerization.**EXPLOSION AND FIRE RISKS****FLAMMABILITY :** Inflammable**EXTINGUISHING METHODS :** Dry chemical, carbon dioxide, alcohol foam**FLASH POINT :** -18°C, Tag closed cup**AUTO-IGNITION TEMPS. :** 465°C

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FLAMMABILITY (% per volume)

SUPERIOR LIMIT : 12,6

LOWER LIMIT : 2,6

HAZARDOUS COMBUSTION PRODUCT : Carbon monoxide and carbon dioxide are produced on combustion.

EXPLOSIBILITY DATA : ND

TOXICOLOGICAL PROPERTIES

| ABSORPTION WAYS | | | CONTACT | | | | | | |
|-----------------|---|------------|---------|-----------|---|-----------|---|------|---|
| SKIN | √ | INHALATION | √ | INGESTION | √ | WITH SKIN | √ | EYES | √ |

EFFECTS OF EXPOSURE TO PRODUCT : Inhalation of vapors irritates the respiratory tract and may cause coughing, dizziness, and headache. Higher concentrations can produce central nervous system depression, narcosis, unconsciousness and lung damage. Ingestion of larger amounts may produce abdominal pain, nausea and vomiting. The produce can cause redness, pain, drying and cracking of the skin, and a prolonged or repeated skin contact may produce severe irritation or dermatitis. Contact with eye may cause severe irritation with stinging, tearing, redness and pain.

PREVENTIVE MEASURES

PROTECTIVE EQUIPMENT : Gloves, security glasses and protective apron.

GLOVES : Neoprene, butyl rubber

RESPIRATORY SYSTEM: If exposure exceeds occupational exposure limit, a half-face piece organic vapor respirator may be worn up to 50 times the exposure limit.

OCULAR INSTRUMENT : Chemical safety goggles and/or full face shield

CLOTHING : Apron, coveralls

TECHNICAL CONTROL : Mechanical ventilation is recommended for all indoor situations to control fugitive emissions. Electrical and mechanical equipment should be explosion-proof. Concentrations in air should be maintained below the recommended threshold limit value if unprotected personnel are involves. Local ventilation recommended where mechanical ventilation is ineffective in controlling airborne concentrations below the recommended occupational exposure limit. For personnel entry into confined spaces. (i.e. bulk storage tanks) a proper confined space entry procedure must be followed including ventilation and testing of tank atmosphere. Make up air should always be supplied to balance air exhausted (either generally or locally).

PROCEDURE IN CASE OF LEAKS/SPILLS : Issue warning «flammable». Eliminate all ignition sources. Isolate hazard area and restrict access. Try to work upwind of spill. Avoid direct contact with material. Wear appropriate breathing apparatus (if applicable) and protective clothing. Stop leak only if safe to do so. Dike and contain land spills; contain water spills by booming. Use water fog to knock down vapors; contain runoff. For large spills remove by mechanical means and place in containers. Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal. Recommended materials : sand or earth flush area with water to remove trace residue. Dispose of recovered material as noted below. Notify appropriate environmental agency (ies).

HANDLING : Eliminate all ignition sources. Avoid prolonged exposure to vapors. Wear suitable gloves and eye protection. Bond and ground transfer containers and equipment to avoid static accumulation. Empty containers are hazardous, may contain flammable/explosive dusts, liquid residue or vapors. Keep away from sparks and open flames.



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WASTE DISPOSAL : Waste management priorities (depending on volumes and concentration of waste) are : recycle (reprocess), energy recovery (cement Kilns, thermal power generation), incineration, disposal according to local and regional regulations. Do not attempt to combust waste on-site.

STORAGE : Flammable. Store in a cool, dry, well ventilated area, away from heat and ignition sources. Do not cut, drill, grind, weld or perform similar operations on or near containers. Vapors may accumulate and travel to distant ignition sources and flashback. Use explosion-proof ventilation to prevent vapor accumulation. Empty containers may contain hazardous product residues. Fixed equipment as well as transfer containers and equipment should be grounded to prevent accumulation of static charge. Hot surfaces may be sufficient to ignite even in the absence of sparks or flames. Extinguish pilot lights, cigarettes and turn off other sources ignition prior to use and until all vapors are gone. Do not pressurize drum containers to empty them. Avoid breathing vapors and prolonged or repeated contact with skin. Launder contaminated clothing prior to reuse. Use good personnel hygiene. Air-dry contaminated clothing in a well ventilated area before laundering.

FIRST AID

SKIN : Start rinsing and remove contaminated clothing while rinsing. Wash contaminated skin with mild soap and water. Obtain medical attention as soon as possible after first aid has been initiated and completed.

EYES : Flush eyes with water for at least 15 minutes while holding eyelids open. Obtain medical attention as soon as possible after first aid has been initiated and completed.

INHALATION : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

INGESTION : Do not induce vomiting. Guard against aspiration into lungs by having the individual turn in to their left side. Do not give anything by mouth to an unconscious person. If vomiting occurs spontaneously keep below hips to prevent aspiration If liquid into the lungs. Obtain medical attention immediately.

NOTES TO PHYSICIAN : If more than 2,0 mL/kg has been ingested, vomiting should be induced with supervision. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before vomiting, gastric lavage with a cuffed endotracheal tube should be considered.

INFORMATION ON THE M.S.D.S. PREPARATION

PREPARED BY :
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NOTE :

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