

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 : 600-2****PRODUCT IDENTIFICATION AND USE****NAME OF PRODUCT:** Diesel fuel conditioner**USE OF PRODUCT:** to prevent frozen injection systems and gas lines**TRANSPORTATION OF DANGEROUS GOODS****SHIPPING NAME:** Flammable liquid, toxic, N.O.S. (isopropanol - methanol)**WHMIS CLASSIFICATION:** B2, D1A, D2A, D2B**P.N.I. :** UN 1992**PRIMARY CLASS :** 3**PACKING GROUP :** II**SUBSIDIARY CLASS :** 6.1**COMPONENTS**

COMPOSITION	% V/W	CASE #	LD ₅₀ mg/kg Oral/rat	LC ₅₀	TLV ppm 8h
Methanol	50 to 60	67-56-1	7500	64000	200
I.P.A. 99%	10 to 30	67-63-0	5000	22600	400
Xylene (isomeric mixture)	5 to 20	1330-20-7	4300	5000	100
Diacetone	2 to 5	123-42-2	13600	1065	50

PHYSICAL CHARACTERISTICS

PHYSICAL STATE : Liquid	APPEARANCE : Colorless	ODOR: Solvent	ODORTRESHOLD : Not available
VAPOR TENSION : 2,6	VAPOR DENSITY : Not available	EVAPORATING RATE : Not available	
BOILING RANGE : 70°C	FREEZING POINT : -50°C	pH : 8,40	
DENSITY (g/mL) : 0,79	DISTRIBUTION FACTOR WATER/OIL : Not available	SOLUBILITY IN WATER (25°C) : Not available	

REACTIVITY DATA**CHEMICAL STABILITY :** Stable

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INCOMPATIBILITY WITH OTHER PRODUCTS : Avoid strong oxidizers and flames and/or sparks.

REACTIVITY CONDITIONS : No hazardous polymerization.

EXPLOSION AND FIRE RISKS

FLAMMABILITY :

EXTINGUISHING METHODS : Chemical extinguisher and/or foam for alcohol

FLASH POINT : 9°C (closed cup)

AUTO-IGNITION TEMPS. : Not available

FLAMMABILITY (% per volume)

SUPERIOR LIMIT : 26,5

LOWER LIMIT : 5,5

HAZARDOUS COMBUSTION PRODUCT : The incomplete combustion of the product could result in producing carbon monoxide and other toxic gas.

EXPLOSIBILITY DATA :

TOXICOLOGICAL PROPERTIES

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

EFFECTS OF EXPOSURE TO PRODUCT : Product can irritate mucus glands. High doses can provoke headaches, drowsiness, nausea, dizziness and fainting. Inhalation may aggravate cases of emphysema and bronchitis. Repeated contact with skin provokes irritations, dryness of the skin and cracking of the skin.

PREVENTIVE MEASURES

PROTECTIVE EQUIPMENT : Gloves, security glasses, respirator and protective apron.

GLOVES : Rubber, nitrile, PVC

RESPIRATORY SYSTEM: Necessary over the permitted limit..

OCULAR INSTRUMENT: Safety glasses.

CLOTHING: Protective apron.

TECHNICAL CONTROL: Ventilation.

PROCEDURE IN CASE OF LEAKS/SPILLS : Flammable liquid. A spill would cause and immediate fire hazard. Supply proper equipment and be sure to close every source of ignition. Cease spill and prevent from going into sewers or aqueduct. Advise proper authorities. For a small spill, use a good and inert absorbent material and dispose into a good container.



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HANDLING : Handle and open the containers with precaution. Do not weld or cut the containers because they can contain residues from flammable vapors. Do not heat or pressurize containers. Do not put any non-combustible material in empty containers, violent chemical reactions can occur. Do not smoke, eat or drink or working areas. Respect a good personal hygiene after manipulation of the product. Keep containers electrically grounded specially during manipulation or while transferring. The material can accumulate static.

WASTE DISPOSAL : Dispose according to federal, provincial and local regulations. Do not throw into sewer or garbage.

STORAGE : In a cool, dry and well ventilated area. Keep away from incompatible material and from sources of ignition (naked flames, sparks, electricity). Keep the containers grounded especially during pumping and transfer operations.

FIRST AID

SKIN : Wash skin with plenty water and soap for a minimum 20 minutes, and remove contaminated clothing and shoes. If irritations persists, consult a physician.

EYES : Flush gently water for at least 20 minutes while holding eyelids apart. Consult a physician.

INHALATION : Move victim to fresh air. If breathing is difficult, administer oxygen. If person is not breathing, give artificial respiration. Obtain medical attention.

INGESTION : Induce vomiting. Keep victim at rest and warm. If spontaneous vomiting occurs, avoid the victim from inhaling its vomit. Call for medical assistance immediately and/or bring the victim to the hospital or the nearest poison center.

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

PREPARED BY :
Hall Chem Mfg. Inc.

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NOTE:

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