

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

Tel. : (450) 645-0296

Fax : (450) 645-0444

MATERIAL SAFETY DATA SHEET**EMERGENCY : CANUTEC (613) 996-6666****MSDS : 190-2****PRODUCT IDENTIFICATION AND USE****NAME OF PRODUCT :** ALTRA 9000**USE OF PRODUCT :** additive diesel fuel conditioner with low sulfur**TRANSPORTATION OF DANGEROUS GOODS****SHIPPING NAME :** flammable liquid, N.O.S. (isopropanol)**WHMIS CLASSIFICATION:** B2, B3, D2B**P.N.I. :** UN 1993**PRIMARY CLASS :** 3**PACKING GROUP :** III**SUBSIDIARY CLASS :****COMPONENTS**

COMPOSITION	% V/V	CASE #	LD ₅₀ mg/kg Oral/rat	LC ₅₀ ppm 4h	TLV ppm 8h
Xylène	15 to 25	1330-20-7	4300	6700	100
Isopropyl alcohol	35 to 40	67-63-0	5000	22600	400
Éthylbenene	0 to 0,1	100-41-4	3500	4000	100
Benzene	<0,0005	71-43-2	930 to 5600	13700	0,5
Kerosene	35 to 40	8008-20-6	>5000	2500 mg/m ³	
Additives	0 to 5				
Rust inhibitors	1,4 to 1,6				

PHYSICAL CHARACTERISTICS

PHYSICAL STATE : Liquid	APPEARANCE : Amber	ODOR : Typical	ODORTRESHOLD : Not available
VAPOR TENSION : Not available	VAPOR DENSITY : Not available	EVAPORATING RATE : Not available	
BOILING RANGE : >100°C	FREEZING POINT : Not available	pH : Not applicable	
DENSITY (g/mL) : 0,820 at 20°C	DISTRIBUTION FACTOR WATER/OIL : Not available	SOLUBILITY IN WATER (25°C) : Light	



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MATERIAL SAFETY DATA SHEET**EMERGENCY : CANUTEC (613) 996-6666****REACTIVITY DATA****CHEMICAL STABILITY :** Stable in sealed metal containers.**INCOMPATIBILITY WITH OTHER PRODUCTS :** Avoid strong oxidizing agents, sulfuric and nitric acids, halogens, caustics, ammonia, chlorinated solvents, alkanolamines and aldehydes.**REACTIVITY CONDITIONS :** No hazardous polymerization. Avoid heat, sparks, flames and strong oxidizers.**EXPLOSION AND FIRE RISKS****FLAMMABILITY :** Combustible, refer to flash point.**EXTINGUISHING METHODS :** Water, dry chemical, carbon dioxide, alcohol foam.**FLASH POINT :** >37°C**AUTO-IGNITION TEMPS. :** Not available**FLAMMABILITY (% per volume)****SUPERIOR LIMIT :** Not available**LOWER LIMIT :** Not available**HAZARDOUS COMBUSTION PRODUCT :** Oxides of carbon, smoke, carbon monoxide, carbon dioxide, vapors, soot and oxide of nitrogen.**EXPLOSIBILITY DATA :** ND**TOXICOLOGICAL PROPERTIES**

ABSORPTION WAYS :			CONTACT :						
SKIN	✓	INHALATION	✓	INGESTION	✓	WITH SKIN	✓	EYES	✓

EFFECTS OF EXPOSURE TO PRODUCT : Inhalation may cause headache, nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, possible unconsciousness, and asphyxiation. Ingestion can cause nausea, vomiting, diarrhea, and gastro intestinal irritation. Exposure to vapor and/or to product may cause irritation, blurred vision, and redness. The contact with skin can cause dermatitis. Aspiration into lungs can cause a bronchopneumonia or pulmonary oedema.

PREVENTIVE MEASURES**PROTECTIVE EQUIPMENT :** Gloves, security glasses, protective apron and respirator.**GLOVES :** Rubber, nitrile or PVC.**RESPIRATORY SYSTEM :** Will be necessary if the limit of exposure allowed for is surpassed.**OCULAR INSTRUMENT :** Splash proof glasses.**CLOTHING :** Protective apron.

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TECHNICAL CONTROL : Local ventilation.

PROCEDURE IN CASE OF LEAKS/SPILLS : Observing health hazards described above, ventilated area, remove ignition sources. Absorb with inert absorbent, confine spill, transfer to drum.

HANDLING : Keep away from heat, sparks, and flame. Avoid skin or eye contact. Avoid inhalation. Wearing contact lenses is inadvisable.

WASTE DISPOSAL : Dispose in accordance with local, state or federal regulations.

STORAGE : Store in a cool, dry, well-ventilated area, away from incompatibles.

FIRST AID

SKIN : Wash with plenty of water and soap, for at least 20 minutes, while removing contaminated cloths including shoes. If irritation persists, consult a doctor.

EYES : Wash under running water for a least 20 minutes while keeping eyelids open. Consult a doctor.

INHALATION : Bring the victim in a cool, dry and well ventilated area. If the victim is not breathing, apply artificial respiration and call for medical assistance immediately.

INGESTION : Do not induce vomiting. Keep victim at rest and warm. Avoid victim from inhaling its vomit. Call for medical assistance immediately or bring the victim to the hospital.

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

PREPARED BY :
Hall Chem Mfg. Inc.

TELEPHONE : (450) 645-0296

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NOTE :

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