1270 rue Nobel Boucherville QC J4B 5H1

SAFETY DATA SHEET

Tel.: (450) 645-0296

Fax: (450) 645-0444

EMERGENCY: CANUTEC (613) 996-6666

SDS: 112-2

PRODUCT IDENTIFICATION AND USE

NAME OF PRODUCT: Antifreeze Super diesel 50/50

USE OF PRODUCT: Antifreeze

TRANSPORTATION OF DANGEROUS GOODS

SHIPPING NAME: WHMIS CLASSIFICATION: D2A, D2B

P.N.I.: PRIMARY CLASS: Not controlled

PACKING GROUP: SUBSIDIARY CLASS:

COMPONENTS

COMPOSITION	% V/V	CASE #	LD ₅₀ mg/kg	LC_{50}	ACGIH TLV (USA)
			Oral/rat		
Ethylene glycol	45 to 47,5	107-21-1	4700		CIEL 100 mg/m³(aerosol)
Diethylene glycol	0 to 2,5	111-46-6	12565		
Rust inhibitors					

PHYSICAL CARACTERISTICS

PHYSICAL STATE:	APPEARANCE :	ODOR:	ODORTRESHOLD:			
Liquid	Blue	Typical	Not available			
VAPOR TENSION (mm Hg at 20°C)	VAPOR DENSITY (air = 1)	EVAPORATING RATE (butyl acetate				
: Not available	:1	= 1): 0.01				
BOILING RANGE : 107°C (224°F)	FREEZING POINT : -37°C	pH : 8,5 to 1	0,5			
DENSITY (20°C) : 1,065	DISTRIBUTION FACTOR	SOLUBILIT	TY IN WATER (25°C):			
	WATER/OIL: Not available	100%				
REACTIVITY DATA						

CHEMICAL STABILITY: Stable



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INCOMPATIBILITY WITH OTHER PRODUCTS: Avoid strong bases, strong acids at high temperatures,

strong oxidizing agents and material reactive with hydroxyl compounds.

REACTIVITY CONDITIONS: No hazardous polymerization

EXPLOSION AND FIRE RISKS

FLAMMABILITY: 1

EXTINGUISHING METHODS: Apply alcohol type or all purpose type foams by manufacturers recommended

techniques for large fires. Use water spray, carbon dioxide or dry chemical media for small fires.

FLASH POINT: >110°C AUTO-IGNITION TEMPS.: Not available

FLAMMABILITY (% per volume)

SUPERIOR LIMIT: 15,3 estimated **LOWER LIMIT:** 3,2 calculated

HAZARDOUS COMBUSTION PRODUCT: Burning may produce carbon monoxide, carbon dioxide and

water. Burning may also produce others organic compounds that can not be identified.

EXPLOSIBILITY DATA: ND

TOXICOLOGICAL PROPERTIES

ABSORPTION WAYS			CONTACT		
SKIN √	INHALATION √	INGESTION √	WITH SKIN $\sqrt{}$	EYES $\sqrt{}$	

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 and protective apron. **GLOVES: RESPIRATORY SYSTEM:**

OCULAR INSTRUMENT: CLOTHING:

TECHNICAL CONTROL: Ventilation

PROCEDURE IN CASE OF LEAKS/SPILLS: Wear suitable protective equipment. Small spills should be flushed with large quantities of water. Larger spills should be collected for disposal. Contain with an inert absorbent. Put the waste in a closed container until future disposal. Do not throw in the sewers or garbage.

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



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non-combustible material in empty containers, violent chemical reactions can occur. Do not smoke, eat or drink on 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.

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WASTE DISPOSAL: Do not dispose in sewers nor in regular trashes.

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: Immediately flush skin with water while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Contaminated leather items such as shoes should be disposed of properly. Safety shower should be located in immediate work area.

EYES: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an phthalmologist.

INHALATION: Move person to fresh air; if effects occur, consult a physician.

INGESTION: Do not induce vomiting. Seek medical attention immediately. If person is fully conscious give 1 cup or 8 ounces (240 ml) of water. If medical advice is delayed and if an adult has swallowed several ounces of chemical, then give 3-4 ounces (1/3-1/2 Cup) (90-120 ml) of hard liquor such as 80 proof whiskey. For children, give proportionally less liquor at a dose of 0.3 ounce (1 1/2 tsp.) (8 ml) liquor for each 10 pounds of body weight, or 2 ml per kg body weight [e.g., 1.2 ounce (2 1/3 tbsp.) for a 40 pound child or 36 ml for an 18 kg child]. NOTES TO PHYSICIAN: If several ounces (60 - 100 ml) of ethylene glycol have been ingested, early administration of ethanol may counter the toxic effects (metabolic acidosis, renal damage). Consider hemodialysis or peritoneal dialysis & thiamine 100 mg plus pyridoxine 50 mg intravenously every 6 hours. If ethanol is used, a therapeutically effective blood concentration in the range of 100 - 150mg/dl may be achieved by a rapid loading dose followed by a continuous intravenous infusion. Consult standard literature for details of treatment. 4-Methyl pyrazole (Antizol®) is an effective blocker of alcohol dehydrogenase and should be used in the treatment of ethylene glycol (EG), di- or triethylene glycol (DEG, TEG), ethylene glycol butyl ether (EGBE), or methanol intoxication if available. Fomepizole protocol (Brent, J. et al., New England Journal of Medicine, Feb. 8, 2001, 344:6, p. 424-9): loading dose 15 mg/kg intravenously, follow by bolus dose of 10 mg/kg every 12 hours; after 48 hours, increase bolus dose to 15 mg/kg every 12 hours. Continue fomepizole until serum methanol, EG, DEG, TEG or EGBE are undetectable. The signs and symptoms of poisoning include anion gap metabolic acidosis, CNS depression, renal tubular injury, and possible late stage cranial nerve involvement. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. In severe poisoning, respiratory support with mechanical ventilation and positive end expiratory pressure may be equired. Maintain adequate ventilation and oxygenation of the patient. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against



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toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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

PREPARED BY: TELEPHONE: 450 645 0296 REVISED -October, 2016

Hall Chem Mfg. Inc.

NOTE:

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