

(DFL) DIESEL FUEL LUBRICANT WITH CONDITIONER

MATERIAL IDENTIFICATION AND USE:

MATERIAL IDENTIFIER: DIESEL FUEL CONDITIONER

PRODUCT IDENTIFICATION NUMBER (PIN): UN 1993

WHIMIS HAZARD CLASS: B-2, D-2A

PRODUCT USE: Concentrated lubricant and conditioner additive to diesel fuel to improve performance of diesel engines.

MANUFACTURER:

NAME: Impact Marketing Solutions INC.

Bay #11 4621-63 Street

Red Deer, AB

T4N 7A6

SUPPLIERS:

NAME: Impact Marketing Solutions

EMERGENCY PHONE NO: (780) 352-2820

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HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	WT%	GAS NO.	LD50	LC50
Hydrocarbon Distillate	10-30	64742-89-8	Mouse (IV): 40mg/kg	Rat (inh): 3400 ppm/4 hrs
Isobutyl Alcohol	10-30	78-83-1	Rat (oral): 2.46g/kg Rabbit (skin): 3.4g/kg	Rat (inh): 8000ppm/4hrs
Chlorinated paraffin oil	1-4	63449-39-8	(Species not available) (oral): > 4g/kg	No Data
Petroleum based mineral oil	2-5	8012-95-1	Mouse (oral): 22g/kg	
Octylnitrate	20-50	27247-96-7	Rat (oral): >5g/kg Rabbit (skin): >2g/kg	Rat (inh): 20-200mg/1 (1hr)

PHYSICAL DATA

PHYSICAL STATE: Liquid SOLUBILITY IN WATER: Partial Solubility

ODOR & APPEARANCE: Slightly alcoholic, light amber %VOLATILE: Approx.50%

BOILING POINT: 31°C SPECIFIC GRAVITY: 0.87

VAPOR PRESSURE: 8mm Hg@ 20°C (isobutyl alcohol) EVAPORATION RATE: n/a

VAPOR DENSITY: Heavier than air pH: Not available

COEFFICIENT OF WATER/OIL DISTRIBUTION: not available Freezing Point: n/a

FIRE AND EXPLOSION DATA

FLASH POINT (ASTM D-93): 23°C (Cleavland Open Cup)

UPPER EXPLOSION LIMIT: Not Available

AUTO IGNITION TEMPERATURE: Not available

LOWER EXPLOSION LIMIT: 1.7% for isobutyl alcohol

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide, nitrogen oxides, HCl, uncombusted hydrocarbons, possibly phosgene from chlorinated hydrocarbons.

EXTINGUISHING MEDIA: Water fog, dry chemical, foam or carbon dioxide. Do not use direct water stream.

EXPLOSION DATA: When mixed with air flammable mixtures can explode in a confined area.

SENSITIVITY TO STATIC DISCHARGE: Yes, if conditions for flammability are satisfied or present as aerosol mist.

SENSITIVITY TO IMPACT: No

REACTIVITY DATA

STABILITY: Stable liquid CAN HAZARDOUS POLMERIZATION OCCUR? No

INCOMPATIBLE MATERIALS: Oxidizing agents, alkali metals.

HAZARDOUS DECOMPOSITION PRODUCTS: On combustion, oxides of carbon and nitrogen, hydrogen chloride and possibly phosgene.

TOXOLOGICAL PROPERTIES

POSSIBLE ROUTES OF ENTRY: Skin contact- Yes Skin Absorption- Yes

Eye Contact- Yes Inhalation- Yes

Ingestion- Yes

EFFECTS OF ACUTE EXPOSURE:

Under normal use exposures to vapors or mists are expected to be negligible. However, breathing high vapor concentrations may cause headaches, nausea, vomiting, dizziness, narcosis, or central nervous system depression. Inhalation of very high vapor concentrations can cause unconsciousness and death. Contact with skin is irritating and can cause erythema and hyperaemia. Ingestion can cause diarrhea and vomiting. Any aspiration of mists into lungs, such that may occur from vomiting, may cause chemical pneumonitis and pulmonary edema and hemorrhage possibly resulting in death from chemical pneumonia. High exposures can sensitize heart muscle in rare cases causing rhythm disorders.

EFFECTS OF CHRONIC OVEREXPOSURE TO PRODUCT:

Under normal use conditions exposures are expected to be negligible. However, prolonged or repeated skin contact at low levels can cause irritation, dermatitis, and may aggravate pre-existing dermatitis. Prolong or repeated exposure to high vapor concentrations may cause neural dysfunction. Effects of the kidney, liver, and heart have been reported caused by volatile chlorinated paraffins from chronic exposure to vapor. Chronic exposure to hydrocarbon vapors and isobutyl alcohol can also affect the liver and kidney.

EXPOSURE LIMITS: VM&P Naphtha- ACGIH TWA = 300 ppm; Isobutyl alcohol- ACGIH TWA = 50 ppm . oil mist, Mineral- ACGIH TWA = 5 mg/1, 10mg/1 STEL; Stoddard Solvent-ACGIH TWA = 300 ppm

IRRITANCY: Severe eye irritant, strong skin irritant. Inhalation of vapors can irritate respiratory tract and lungs.

SENSITIZATION TO PRODUCT: In rare cases cardiac sensitization in individuals from exposure to high concentration of hydrocarbon vapors can occur, resulting arrhythmia.

CARCINOGENICITY: Some components of this product have been reported to cause cancer in animals. Chlorinated paraffins are listed by IRAC (International Agency for Research on Cancer) as Group 2B, Possibly Carcinogenic to Humans. Under normal use conditions, exposure to these chemicals is not expected to occur.

TERATOGENCITY AND REPRODUCTIVE TOXICITY: No evidence

SYNERGENICITY EFFECTS: No evidence

MUTAGENICITY: Some components of this product have shown mutagenic properties. Under normal conditions exposure to these chemicals is not expected to occur.

PREVENTATIVE MEASURES

GLOVES: Neoprene recommended if there is potential of skin contact.

RESPIRATOR: Not necessary under normal use. If potential of exposure to vapor exists, use a NIOSH or OSHA approved air purifying organic vapor respirator.

EYES: use monogoggles or faceshield if potential of face splash or spray exists.

FOOTWEAR: Not required. Remove contaminated footwear and do not reuse until cleaned.

ENGINEERING CONTROLS: If necessary, provide local exhaust to remove fugitive vapors and mists and maintain air concentrations at point of use below occupational exposure limits. Avoid use in confined space.

LEAK/SPILL PROCEDURES:

Shut off all sources of ignition including electrical equipment. Evacuate area. Wear self-contained breathing apparatus and protective eyewear, gloves, boots and apron. An air purifying organic vapor respirator may give sufficient respiratory protection for small spills. Contain are by diking and absorb on sand, vermiculite, activated carbon, or other absorbent and place in closed container for disposal. Ventilate area and wash spill site after pickup is complete.

STORAGE REQUIREMENTS:

Keep tightly closed. Keep away from heat or flame. Some type of plastic may soften or permeate vapors.

FIRST AID MEASURES

INHALATION: Remove to fresh air. If not breathing give artificial respiration, preferably by mouth to mouth.

INGESTION: Do not induce vomiting. If vomiting occurs spontaneously elevate hips to avoid aspiration into lungs.

EYE CONTACT: Flush with water for 15 min., thoroughly rinsing under eyelids.

SKIN CONTACT: Wash with water immediately. Wash contaminated clothing before reuse. Get medical attention for any serious exposure to the product.

PREPERATION DATA

PREPARED BY: D Cameron (780) 467-7311 Prep. Date: April 08, 2011.

CLASSIFICATIONS:

WHIMIS: Class B-2, D-2A TDG: SHIPPING NAME: Flammable Liquids, NOS (Naphtha) PIN: UN 1993

CLASS: 3 PACKING GROUP: III