

Material Safety Data Sheet
Howes Lubricator Diesel Treat & Anti Gel (Canadian)

Section I : Product Information

Material Name Identifier: Howes Lubricator - Diesel Fuel Conditioner Anti-gel
Manufacturer's Name: R.B. Howes & Co. Inc. **Address:** PO Box 100, Coventry, RI. 02816
Emergency Telephone Number: 401-294-5500
Supplier's Name: Vulsey Industries Ltd **Address:** 35 Regan Rd., Brampton, Ontario L7A 1B2
Phone Number: 415-846-2200 **Product Uses:** Diesel Fuel Conditioner
Trade Name: Howes Lubricator - Diesel Treat & Fuel Conditioner
WHMIS Classification: Class B, Division 1: Combustible Material
 Class D, Division 2: Very Toxic Material



Section II : Hazardous Ingredients

Chemical Identity	Concentration (V/V)	CAS #	LD50 (Species And Route)	LC50
Severely Hydrotreated Petroleum Oil And Severely Refined Petroleum	30 to 60 %	64742-52-5	Not Established	Not Available
Hydrotreated Petroleum Distillate	15 to 40 %	64742-01-4		
		64742-47-8	Rat - Oral > 5 g/kg	Rat >5 g/m ³
Heavy Aromatic Naphtha	5 to 10 %	64742-94-5	3 g/kg Oral rat >3 g/kg skin rabbit	Not Available

Section III : Physical Data

Physical State : Liquid
Odor Threshold : Not Determined
Odor and Appearance : Light Amber with Distinctive Odor
Specific Gravity : 0.8 - 0.9
Coefficient of Water/Oil Distribution : Insoluble in Water
Vapour Pressure (Air = 1) : <0.1 mm
Boiling Point (deg C) : 172
Freezing Point (deg C) : Not Determined
PH : Not applicable
Vapour Density (Air = 1) : >1
Evaporation Rate (nbuc = 1) : 0.01
% Volatile (by volume) : 100

Section IV : Fire or Explosion Hazard

Conditions of Flammability : Excessive Heat
Means of Extinction : Foam , CO2, Dry Chemical, Water fog or spray
Flash Point (C) and method : 71 - Cleveland (open cup)
Upper Flammable Limits % : Data not available
Lower Flammable Limits % : Data not available
Autoignition Temperature (c) : Data not available
Hazardous Combustion Products : Carbon Monoxide and
 Asphyxiates when burning.
Special Fire Fighting Procedures : Use air supplied breathing equip. for enclosed areas. Avoid breathing vapors or fumes. Cool exposed containers with water spray.
Unusual Fire and Explosion Hazard : Data not available

Section V : Reactivity Data

Stability : Normally stable, Will not polymerize
Incompatible Materials : Strong Oxidants like liquid chlorine or concentrated oxygen.
Conditions to Avoid : Excessive heat
Hazardous Decomposition or Byproducts : Carbon Oxides (CO, CO2) and Asphyxiates when Burning.

Section VI : Toxicological Properties

Route(s) of Entry : **Inhalation**: TLV 5mg / M3 for oil mist in the air. **Skin**: Prolonged Contact, **Ingestion**: Poisonous
Effect of Acute and Chronic Exposure to Product : Prolonged or repeated skin contact may cause skin irritation. **Ingestion harmful or fatal if not treated. Prolonged exposure to heavy concentrations of fumes may cause irritation to mucus membranes and airway.**
Signs and Symptoms of Exposure: Eyes, skin or air passages may become red and irritated. Ingestion may cause cramps and nausea.
Medical Conditions Generally Aggravated by Exposure: Respiratory diseases such as asthma. Cuts, rashes or similar skin diseases may be adversely affected by prolonged or repeated exposure.
Synergistic Products: None Known
Evidence of Carcinogenicity, Reproductive Toxicity, Teratogenicity or Mutagenicity? : Not Established
Sensitivity to Product: Potential skin sensitizer.

Section VII : Preventive Measures

Personal Protective Equipment : Apron to avoid contact with clothing.
Gloves (specify) : Viton, Nitrile or PVC.
Respiratory (specify) : Not normally need however use organic vapor vap, cartridge @ low concentrations. SCBA or line supply respirator @ high concentrations.
Eyes (specify) : Safety Glasses w/side shield or anti-splash goggles or face shield.
Footwear (specify) : Impervious for high exposure risk.
Engineering Controls : As necessary for 5MG / M3 TLV
Leak and Spill Procedure : Eliminate ignition sources, isolate area, wear respirator and protective clothing. Stop leak if safe to do so. Dike / Boom to contain liquid. Recover free liquid. Use oil absorbents to clean up trace amounts. Prevent contamination of sewers and open water sources. Notify appropriate environmental agency.
Waste Disposal : Dispose in accordance with local, provincial / state and federal regulations.
Handling Procedures and Equipment : Keep containers closed when not in use. Do not handle near heat, sparks or strong oxidants. Ground containers for decanting. Use ventilation if necessary. **Avoid breathing fumes and prolonged / repeated skin contact.** Use good personal hygiene, launder contaminated clothing before reuse.
Storage Requirements : Cool, clean, dry, well ventilated room away from sources of ignition.

Section VIII : First Aid Measures

Inhalation : Remove victim to fresh air. Call for medical help.
Ingestion : DO NOT induce vomiting. Get medical help immediately. Keep victim at rest.
Eye Contact : Flush with water for 15-20 minutes. see doctor if irritation persists.
Skin Contact : Remove contaminated clothing, wash with mild soap and water, if irritation persists, obtain medical help.

Additional Information

MSDS Preparation - Sources Used : M.S.D.S. of product (U.S. Version), Components and similar products.
Prepared By : Quality control department. **Date** : November 27, 2002, **Revision** #3
Revision Notes: Revision to section II

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