



MATERIAL SAFETY DATA SHEET

Effective Date: January, 28 th, 2014

Chemical Product and Company Identification:

DIPACO INC

105 E. Parr Blvd. Reno, NV 89511

Emergency Phone: 1-800-222- 1222

Product Name: DIESEL MAX WINTER ONE SHOT

Chemical Family/Class: Mixture, solvent-based

Information Phone: (800) 648-4720

Product Codes: DT2302

CAS Number: Not applicable

Composition Data:

			OSHA		ACGIH
			PEL	TLV	STEL
Petroleum distillate	60 - 75	8052-41-3	500	100	200
Trimethylbenzene ^{2,3}	< 21	95-63-6	N/E	25 (TWA)	N/E
Glycol ether ^{1,2,3}	10 - 20	111-76-2	25-skin	25-skin	TWA
2-Ethyl hexyl nitrate	< 25	27247-96-7 AEL (Dupont):	5ppm, 8/12-hr TWA		

¹ Chemical subject to reporting requirements of CERCLA (40CFR 302.4).

² Chemical subject to reporting requirements of SARA Section 313 (40CFR 372).

³ For additional data, consult last section of this document

N/E = Not Established

One of the components of this product (vinyl acetate) is listed as a carcinogen or potential carcinogen by OSHA, IARC Monograph or National Toxicology Program.

Typical Physical Data (not specifications)

Boiling Point, °F (typical): > 300

Specific Gravity @ Room Temp: 0.891

Vapor Pressure @ 20°C, mm Hg: < 4

Vapor Density (air =1): > 1

Evaporation Rate: < Butyl acetate

Solubility in Water: Partially soluble

Appearance: Clear to hazy amber

Odor: Solvent-like

Physical State: Liquid

Percent Volatile (approx): 90%

Fire and Explosion Hazard Data:

Specific Hazard: Material is considered **Flammable** by current U.S. D.O.T. criteria

Flash Point, typical (TCC): 119°F

Flammability Limits: Upper: N/D

Autoignition Temperature: N/D (not determined)

Lower: N/D



Fire and Explosion Hazard Data (cont.):

Extinguishing Media: Foam, CO₂ or Dry Chemical. Water fog may be used only for cooling exposed material. Special Firefighting Procedures: Avoid contact with vapors. Do not use water except as a fog; material may float on water. Use of self-contained breathing apparatus with full face mask is recommended for all chemical fires.

Unusual Fire or Explosion Hazards: Toxic or noxious fumes, gases or vapors may evolve on burning. Vapors which are heavier than air may be evolved and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Metal containers of 5 gallons or larger should be grounded and/or bonded when material is transferred.

Reactivity Data:

Stability: Stable under ordinarily expected conditions.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizing agents, strong alkalis, strong acids.

Conditions to Avoid: Prolonged Reflux, Elevated Temperatures, Open Flame.

Hazardous Combustion or Decomposition Products: Combustion may produce carbon monoxide, carbon dioxide, smoke aldehydes and other reactive hydrocarbons, and other products of incomplete combustion.

Health Hazard Data:

Primary Routes of Entry: Inhalation, Skin Absorption, Skin Contact, Eye Contact.

Acute Exposure Effects:

Swallowing: Moderate Toxicity. Single dose oral toxicity (small amounts) is unlikely to cause harmful effects. May cause central nervous system depression (e.g. headache, general weakness, dizziness, drowsiness, unconsciousness), irritation of the gastrointestinal lining, vomiting, nausea, diarrhea, and abdominal pain. Swallowing large amounts may be harmful. Symptoms may include blood abnormalities (Red Blood Cell Hemolysis), Kidney or liver damage and coma. Aspiration of product into airways incidental to swallowing or vomiting may cause mild to severe pulmonary injury, possibly progressing to death (See inhalation).

Skin Absorption: Skin absorption is possible. Effects may include those described for swallowing. Prolonged or extensive contact may result in the absorption of potentially harmful amounts of material.



Inhalation: Short-term exposure toxicity is moderate. Headache, nausea, vomiting dizziness and drowsiness and other central nervous system effects may occur. Exposure to high vapor concentrations or prolonged exposure to lesser concentrations may be harmful. Symptoms include irritation of the respiratory tract, eyes and throat, stupor, nasal discomfort and discharge, possible chest pain and coughing. Breathing of vapors may aggravate asthma and inflammatory or fibrotic pulmonary disease.

Health Hazard Data (cont.):

Skin Contact: Brief contact may cause mild skin irritation with itching, local redness. Prolonged contact may cause more severe irritation, with discomfort or pain and dermatitis (redness, edema, drying, defatting and cracking of the skin), and may also result in skin absorption. Some similar materials have been implicated as skin sensitizers. May aggravate an existing dermatitis. Potential as a sensitizer: contains < 0.2% of NJ Trade Secret Registry # 00850201001-5473P: Contact may cause allergic skin reaction in susceptible individuals.

Eye Contact: Exposure to liquid or vapors may be severely irritating to the eyes. Symptoms include discomfort, pain, excessive blinking and tear production, marked excess redness and swelling of the conjunctiva and risk of irreversible damage to the eyes.

Target Organ Effects: Acute lethal exposure to the glycol ether in animal studies has resulted in congestion of organs including kidney, spleen and lung. Overexposure to this same material has been suggested as a cause of the following effects in laboratory animals, and may aggravate preexisting disorders of these organs in humans: mild, reversible liver effects, mild reversible kidney effects, blood abnormalities. Repeated ingestion of 2-Ethylhexanol (a minor constituent) may cause injury to the liver and kidneys.

Transportation Information:

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
49CFR/DOT	UN1993	Flammable liquids, n.o.s. (Petroleum distillates)	3	III	
49CFR/DOT Additional information	This material may be reclassified as a 'Combustible liquid', when shipping by ground within the United States only. Combustible liquids may be shipped as non-hazardous material when shipped in non-bulk containers (450 L / 119 Gallons or less).				
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Petroleum distillates)	3	III	
TDG Additional information	This material may be shipped as non-regulated material when in small means of containment (<450 Litres), provided the requirements of TDG section 1.33 are met.				



Chronic Exposure Effects:

Effects of Repeated Overexposure: Contains vinyl acetate, which has been implicated in some studies as a carcinogen. See last section of this document for detailed information. Repeated overexposure to petroleum naphthas can cause nervous system damage. Acute lethal-exposure animal studies of the glycol ether have resulted in congestion of organs including kidney, spleen and lungs. Fetal harm occurs only at exposure levels harmful to the pregnant animal. Simple animal overexposure studies of the same material have reported mild, reversible effects to liver and kidney, and red blood cell hemolysis; however, humans appear resistant to this effect. Health experts may disagree as to the significance of this data.

First Aid:

Swallowing: If patient is fully conscious, give 2 glasses of water. Place individual on left side with the head down. Do not induce vomiting. Obtain immediate medical attention. Never give anything by mouth if person is unconscious or drowsy.

Skin: Remove contaminated clothing. Wash exposed skin with soap and water. If symptoms develop or persist, seek medical attention. Launder contaminated clothing before reuse and discard shoes and other leather articles saturated with the product.

Inhalation: Remove affected individual to fresh air. Immediately seek medical attention. If breathing is labored, administer oxygen. If breathing has stopped, administer artificial respiration.

Eyes: Remove individual from exposure and into fresh air. Immediately flush eyes with plenty of water for at least 17 minutes while holding eyelids apart. DO NOT remove contact lenses if worn. Obtain medical attention without delay, preferably from an ophthalmologist.

Notes to Physician: No specific antidote. Treat symptomatically.

Handling and Storage:

Precautions: Keep product and container away from potential sources of ignition. Do not freeze product. Do not subject to excessive heat. Keep out of reach of children. Do not contaminate foodstuffs by storage or use of this material. Do not mix with other chemicals except under the direct supervision of a chemist or technically trained supervisor. Open container only in a well-ventilated area. Do not breathe fumes or vapors. Keep containers tightly closed when not in use. Wash thoroughly after handling, and particularly before eating, drinking or smoking. Do not transfer to unmarked containers.



WARNINGS: Harmful if absorbed through skin. Harmful if swallowed. Causes eye and skin irritation. Flammable. Swallowing large quantities may cause red blood cell damage.

Special Precautions: Warning! Sudden releases of hot organic vapors or mists from equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Notice: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this data sheet must be observed.

Accidental Release, Spill or Leak Procedures:

Spill Procedure: Evacuate all non-essential personnel. Personal Protective Equipment appropriate to the nature of the spill must be worn. Remove sources of ignition. Ventilate spill area. Stop spill at source. Prevent entry into sewers and waterways. Collect free liquid for disposal.

Residual liquid may be absorbed using inert material. Transfer contaminated absorbent, soil, etc. into containers for disposal. Spills may be reportable under CERCLA, SARA or DOT criteria, depending on quantities involved.

Disposal Methods: Dispose of liquid or contaminated solid materials in conformance with all applicable Federal, State or Local regulations. Incineration of waste material may be suggested as a practical remedy.

Personal Protective Equipment and Protection Information:

Respiratory Protection: If airborne exposure limit for any component is exceeded, use NIOSH/MSHA-approved respirator for organic vapors. Self-contained or air-supplied breathing apparatus is preferred. OSHA regulations also permit other respirators under specified conditions. Consult your Industrial Hygienist for guidance. Implement engineering or administrative controls to reduce exposures.

Ventilation: Provide sufficient mechanical (General and/or Local Exhaust) ventilation to control mists or vapors and maintain exposure below TLV's.

Protective Gloves: Wear impervious or resistant gloves such as Nitrile or Neoprene rubber. Test gloves for permeability before relying on them.



Personal Protective Equipment and Protection Information (cont.):

Eye Protection: Chemical splash goggles or a full face shield are advised. OSHA permits other protective means as appropriate. Never wear contact lenses when handling chemicals of any sort.

Other Protective Clothing or Equipment: Use chemical-resistant apron or other impervious clothing if required to avoid contamination. A long-sleeved shirt is recommended. Use impervious boots (TEST!) to avoid contamination of shoes. Never wear rings, watchbands or other items which may entrap materials against the skin when handling chemicals of any sort; similarly, the availability of a safety shower and eye bath in the vicinity is advised for all chemical handling operations.

Selected Regulatory & Miscellaneous Data:

TSCA: All components of this product are on the US TSCA Inventory. 1,2,4-Trimethylbenzene may be subject to export notification under TSCA Section 12(b).

EPA: Hazard Categories: Delayed Health, Fire, Immediate Health.

HMIS Hazard Ratings: Health 2; Fire 2; Reactivity 0; Protection: G (Eyes, Gloves, Respirator).

Disclaimer:

All information contained herein is compiled from sources believed dependable and is accurate to the best of the preparer's knowledge; however, no guarantee or warranty whatsoever is made, expressed or implied, of merchantability or fitness for any particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. The onus for safe use of any chemical rests with the user, who must determine for himself the suitability for the product for any intended purpose. Use should not assume that no hazards or appropriate precautions exist other than those found in these pages. No information or suggestions contained herein shall be construed as a recommendation to infringe any patent.

DOT SHIPPING STIPULATION: FLASH POINT BETWEEN 100-140°F – FLAMMABLE RECLASSIFIED COMBUSTIBLE FOR GROUND SHIPPING, PER 49 CFR 173.120 (B)(2).