

Global Nano Products Inc

Material Data Safety Sheet

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Version 1.0
April 18, 2013

Heavy Duty

HMIS Rating: Health 1
Flammability 3
Physical Hazard 1
Complies with USDL Safety and Health Regulations 29CFR1910.1200

SECTION 1 COMPANY AND PRODUCT IDENTIFICATION

PRODUCT NAME: **Heavy Duty**

MANUFACTURER:

Global Nano Products Inc.
1441 Powell St
Vancouver, BC
Canada, V5L 1G8
Phone 1-888-959-0857

Emergencies 1-888-959-0857

SECTION 2 COMPOSITION/INFORMATION ON COMPONENTS

<u>COMPONENTS</u>	<u>CAS NUMBER</u>	<u>%</u>
odorless mineral spirits	64741-65-7	40-70
dimethyl carbonate	616-38-6	15-40
Isoparaffinic Hydrocarbon	64742-48-9	10-30
Aminoalkoxydimethylpolysiloxane	69430-37-1	1.0-5.0
Perfluorinated Polymers	proprietary	1.0-5.0

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical Properties: clear colorless liquid /pH = 4.0-6.0

HAZARDS IDENTIFICATION con't**IMMEDIATE HEALTH EFFECTS**

Eyes: Overexposure may cause irritation.

Skin: Overexposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Inhalation: Vapor or mist inhalation may cause irritation to mucous membranes and damage to lungs. There are no animal test data to predict human health effects of overexposure to this product. High vapor concentrations may cause headaches and dizziness, are anesthetic and may result in irritation of or damage to lungs.

Ingestion: May be harmful or fatal if ingested. If swallowed, may be aspirated and cause chemical pneumonitis or other lung damage.

PRIMARY ROUTES OF ENTRY: Eyes, skin contact/absorption, inhalation or ingestion.

SIGNS/SYMPTOMS OF OVEREXPOSURE: Gastrointestinal irritation (nausea, vomiting, diarrhea), and/or irritation to the skin, eyes, nose, throat, and respiratory tract.

TARGET ORGAN EFFECTS: Irritation of the skin and eyes. Irritation of lungs possible if mists/aerosols are inhaled repeatedly.

REPRODUCTIVE/DEVELOPMENTAL INFORMATION: No data available.

CARCINOGENIC INFORMATION: None of the ingredients of this material are listed as carcinogens by IARC, NTP, or OSHA.

LONG TERM EFFECTS: No data available.

SECTION 4 FIRST AID MEASURES

EYES: Flush eyes with water for at least 15 minutes. If irritation persists, consult a physician.

SKIN: If irritation occurs, flush skin with water for at least 15 minutes. If irritation persists, consult a physician

INHALATION: If symptoms of overexposure develop, remove to fresh air. If symptoms persist, consult a physician.

INGESTION: Give 8 to 16 ounces of water to dilute substance. Consult a physician or local Poison Control Center. Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

FLASHPOINT: 63° F. / 17° C.

EXPLOSIVE LIMITS: No data available.

AUTOIGNITION TEMPERATURE: No data available.

HAZARDOUS PRODUCTS OF DECOMPOSITION: In the event of fire, the

FIRE FIGHTING MEASURES con'd

following may be released: oxides of carbon.

FIRE FIGHTING INSTRUCTIONS

organic compounds may be formed at high temperatures above 200° C or when burned.

EXTINGUISHING MEDIA: Use carbon dioxide, dry powder, foam, or water spray/fog.

FIRE FIGHTING INSTRUCTIONS: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water spray to keep fire-exposed containers cool.

HMIS RATINGS: Health: 1, Flammability: 3, Reactivity: 1

SECTION 6 ACCIDENTAL RELEASE MEASURES

SMALL SPILL: For small spills, soak up material with an absorbent such as clay, sand, or other suitable material and dispose of properly. Flush area with water to remove trace residue.

LARGE SPILL: Wear respirator and protective clothing as appropriate. Shut off source of leak if it is safe to do so. Dike and contain spilled material. Remove with vacuum trucks or pump to storage/salvage containers. Soak up residue with an absorbent such as clay, sand, or other suitable material. Flush area with water to remove trace residue. Report the spill per regulatory requirements.

SECTION 7 HANDLING AND STORAGE

HANDLING: Handle and open containers with care. Do not handle near an open flame, heat, or other source of ignition. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

STORAGE: Protect from Freezing. Perishable if frozen. Store in a cool, well ventilated place away from incompatible materials. Do not store near an open flame, heat, or other source of ignition. Protect material from direct sunlight.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE/FACE PROTECTION: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other types of

safety glasses. Consult your safety representative.

SKIN PROTECTION: Wear rubber gloves (consult your safety representative). Wear impervious clothing and boots to prevent repeated or prolonged skin contact.

RESPIRATORY PROTECTION: If workplace exposure limits of product or any component are exceeded, a NIOSH/MSHA approved air supplied respirator is **RESPIRATORY PROTECTION con't**

advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your safety representative). Engineering controls or administrative controls should be implemented to reduce exposure.

For spray applications, use a coarse spray device such as a trigger sprayer with particle size production greater than 15 microns. Use only low pressure (less than 60 psi) sprayer. DO NOT aerosolize or atomize. Suitable ventilation must be used during application.

ENGINEERING CONTROLS: Provide sufficient mechanical ventilation (general and local exhaust) to maintain exposure below the level of overexposure from known, suspected or apparent adverse effects.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	clear colorless liquid
pH:	4.0 – 6.0
VAPOR PRESSURE:	No data available.
VAPOR DENSITY:	No data available.
BOILING POINT:	No data available.
SOLUBILITY IN WATER:	not soluble
DENSITY:	0.881 g/ml. +/- 0.02 7.350 lb/US gal.

SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable.
CONDITIONS TO AVOID:	None.
MATERIALS TO AVOID:	Oxidizing materials.
HAZARDOUS PRODUCTS OF DECOMPOSITION:	In the event of fire, the following may be released: oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Skin absorption, eye contact, inhalation, and ingestion.

CARCINOGENITY: None of the components of this material are listed as carcinogens by IARC, NTP, or OSHA.

TERATOGENICITY, MUTAGENICITY, OR OTHER REPRODUCTIVE EFFECTS: No data available.

CONDITIONS AGGRAVATED BY EXPOSURE: No data available.

TOXICOLOGICAL INFORMATION con'd:

SYNERGISTIC MATERIALS: No data available.

SECTION 12 ECOLOGICAL INFORMATION

No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL INFORMATION: Dispose in accordance with all applicable federal, state, and local regulations.

RCRA INFORMATION: If this material becomes a waste, it would not be considered a RCRA regulated hazardous waste under 40CFR261.

SECTION 14 TRANSPORT INFORMATION

DOT INFORMATION – 49CFR172.101

In containers of 119 gallons or less, this material is not regulated by DOT for domestic, ground shipments.

Proper shipping name: Petroleum Distillates, N.O.S.

DOT Hazard Class: Combustible Liquid.

Identification number: UN1268

Packing group: III

International shipments, shipments by air and domestic shipments in containers of more than 119 gallons are regulated by DOT and must be shipped as flammable as follows:

Proper shipping name: Petroleum Distillates, N.O.S.

DOT Hazard Class: 3

Identification number: UN1268

Packing group: III

REPORTABLE QUANTITY– 49CFR172.101: Not applicable

SECTION 15 REGULATORY INFORMATION

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

US FEDERAL REGULATIONS

TSCA Status: The intentional components of this product are listed.

CERCLA Reportable Quantities – 40CFR355 APPENDIX A: None.

REGULATORY INFORMATION con't:

SARA 313 – 40CFR372.65: None.

STATE AND LOCAL REGULATIONS

California Proposition 65: None

Massachusetts Right to Know: None

New Jersey Right to Know: None

Pennsylvania Right to Know: None

SECTION 16 OTHER INFORMATION

This information relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

End of MSDS