

HI-GEAR PREMIUM ANTI GEL WITH LUBRICITY

Date Prepared: 02/2012

MATERIAL SAFETY DATA SHEET

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Name of Supplier:

NLS PRODUCTS

BOX 790, 1 Lakewood Cres

Bobcaygeon, ON

K0M 1A0

Tel: (705) 738-2321 Fax: (705) 738-4550 EMAIL: mail@nlsproducts.ca

Product Name: Hi-Gear Diesel Anti-Gel

Product Number: HG310

Product Use: Additive.

Manufacturer: Hi-Gear, Inc. 14 Brent Drive, Hudson, MA 01749

Emergency Phone: CHEMTREC: 1-800-424-9300 (US and Canada)
1-703-527-3887 (International)

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING

FLAMMABLE. TOXIC BY INHALATION. HARMFUL IF SWALLOWED. IRRITATING TO EYES.
MAY CAUSE SKIN IRRITATION. HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, skin absorption, eye contact, inhalation, and ingestion.

Eye: Irritating to eyes.

Skin: May cause skin irritation.

Ingestion: Harmful if swallowed. May cause stomach distress, nausea or vomiting.
Harmful: may cause lung damage if swallowed.

Inhalation: Toxic by inhalation. May cause respiratory tract irritation. Vapours and mists may cause drowsiness, dizziness, headaches, nausea, vomiting and breathing difficulties. This product may be aspirated into the lungs and cause chemical pneumonitis.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation and dermatitis.

Signs and Symptoms: Severe eye irritation, redness and pain. Symptoms may include redness,

edema, drying, defatting and cracking of the skin. Vapours may cause drowsiness and dizziness.

Medical Conditions Aggravated By Exposure: Because of its irritating properties, product may aggravate preexisting skin, eye, and respiratory conditions.

Target Organs: Skin, eyes, gastrointestinal tract, respiratory system, liver, kidneys, blood.

Potential Environmental Effects: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Fuels, diesel, no. 2	68476-34-6	10 - 30
1-Nonene	124-11-8	10 - 30
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	10 - 30
Solvent naphtha (petroleum), light aromatic (C8 to C10)	64742-95-6	3 - 7
1,2,4-Trimethylbenzene	95-63-6	3 - 7
Ethylbenzene	100-41-4	3 - 7
Naphthalene	91-20-3	1 - 5
Trimethylbenzene	25551-13-7	1 - 5
Xylene	1330-20-7	0.1 - 1

Section 4: FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Seek medical attention or call poison control.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

Note to Physicians: Symptoms may not appear immediately.

Section 5: FIRE FIGHTING MEASURES

Flammability: Flammable by WHMIS criteria.

Means of Extinction:

Suitable Extinguishing Media: Powder, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a direct stream of water.

Products of Combustion: May include, and are not limited to: oxides of carbon, oxides of nitrogen, hydrocarbons.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

Environmental Precautions: Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Clean-Up: Scoop up material and place in a disposal container. Provide ventilation.

Other Information: Not available.

Section 7: HANDLING AND STORAGE

Handling:

Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:

Keep out of the reach of children. Keep container tightly closed and dry in a well-ventilated place. Store in a cool place, away from incompatibles.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Ingredient	Exposure Limits
	ACGIH-TLV
Fuels, diesel, no. 2	100 mg/m ³
1-Nonene	Not available.
Solvent naphtha (petroleum), heavy aromatic	Not available.
Solvent naphtha (petroleum), light aromatic (C8 to C10)	5 mg/m ³ (mist)
1,2,4-Trimethylbenzene	25 ppm
Ethylbenzene	100 ppm
Naphthalene	10 ppm
Trimethylbenzene	25 ppm
Xylene	100 ppm

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Wear eye/face protection.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Not available.

Colour: Colourless to light yellow.

Odour:	Petroleum odour.
Odour Threshold:	Not available.
Physical State:	Liquid.
pH:	Not available.
Viscosity:	Not available.
Freezing Point:	-73 to -79 °C (-100 to -110 °F)
Boiling Point:	Not available.
Flash Point:	~ 30 °C (86 °F)
Evaporation Rate:	Not available.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	> 1 (Air = 1)
Specific Gravity:	0.845 (Water = 1)
Solubility in Water:	Negligible.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions. Keep in a cool place.

Conditions of Reactivity: Heat. Incompatible materials.

Incompatible Materials: Oxidizers.

Hazardous Decomposition Products: May include, and are not limited to: oxides of carbon, oxides of nitrogen, hydrocarbons.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient	LD₅₀ (oral)	LC₅₀
Fuels, diesel, no. 2	9000 mg/kg, rat	Not available.
1-Nonene	Not available.	Not available.
Solvent naphtha (petroleum), heavy aromatic	> 5000 mg/kg, rat	> 590 mg/m ³ 4hr, rat > 5.2mg/L 4hr, rat;
Solvent naphtha (petroleum), light aromatic (C8 to C10)	8400 mg/kg, rat	3400 ppm 4hr, rat
1,2,4-Trimethylbenzene	3400 mg/kg, rat	18000 mg/m ³ 4hr, rat
Ethylbenzene	3500 mg/kg, rat	17.2 mg/L 4hr, rat
Naphthalene	490 mg/kg, rat	> 340 mg/m ³ 1hr, rat
Trimethylbenzene	8970 mg/kg, rat	Not available.
Xylene	4300 mg/kg, rat	5000 ppm 4hr, rat

Eye: Irritating to eyes. Severe irritation, redness and pain.

- Skin:** May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- Ingestion:** Harmful if swallowed. May cause stomach distress, nausea or vomiting. Harmful: may cause lung damage if swallowed.
- Inhalation:** Toxic by inhalation. May cause respiratory tract irritation. Vapours and mists may cause drowsiness, dizziness, headaches, nausea, vomiting and breathing difficulties. This product may be aspirated into the lungs and cause chemical pneumonitis.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: Not hazardous by WHMIS criteria.

Carcinogenicity: Hazardous by WHMIS criteria.

Ingredient

Chemical Listed as Carcinogen or Potential Carcinogen *

Fuels, diesel, no. 2
1-Nonene
Solvent naphtha (petroleum), heavy aromatic
Solvent naphtha (petroleum), light aromatic (C8 to C10)
1,2,4-Trimethylbenzene
Ethylbenzene
Naphthalene
Trimethylbenzene
Xylene

G-A3
Not listed.
Not listed.
Not listed.
Not listed.
G-A3, I-2B, CP65
G-A4, I-2B, N-2, CP65
Not listed.
G-A4, I-3

* See Section 15 for more information.

Mutagenicity: Not hazardous by WHMIS criteria.

Reproductive Effects: Not hazardous by WHMIS criteria.

Developmental Effects:

Teratogenicity: Hazardous by WHMIS criteria.

Embryotoxicity: Hazardous by WHMIS criteria.

Respiratory Sensitization: Not hazardous by WHMIS criteria.

Skin Sensitization: Not hazardous by WHMIS criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

This material must be disposed of in accordance with all local, state, provincial, and federal regulations. Do not empty into drains.

Section 14: TRANSPORTATION INFORMATION

TDG Classification

UN1993; FLAMMABLE LIQUID, N.O.S. (Petroleum distillates, Ethylbenzene); Class 3 (6.1); PG III Limited Quantity ($\leq 5L$)

Section 15: REGULATORY INFORMATION

Federal Regulations

Canadian: 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.

Global Inventories**Ingredient****Canada
DSL/NDSL**

Fuels, diesel, no. 2

DSL

1-Nonene

NDSL

Solvent naphtha (petroleum), heavy aromatic

DSL

Solvent naphtha (petroleum), light aromatic (C8 to C10)

DSL

1,2,4-Trimethylbenzene

DSL

Ethylbenzene

DSL

Naphthalene

DSL

Trimethylbenzene

DSL

Xylene

DSL

HMIS - Hazardous Materials Identification System**Health - 3*****Flammability - 2****Physical Hazard - 0****PPE – C****NFPA - National Fire Protection Association:****Health - 3****Fire - 2****Reactivity - 0**

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the

user's own particular use.

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