

# HI-GEAR TOTAL CLEAN EMISSION IMPROVER WITH SMT<sup>2</sup>

DATE PREPARED: 09/10

## MATERIAL SAFETY DATA SHEET

### 1. General Information

Name of Supplier:

NLS Products

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Manufacture: Hi-Gear Products, Inc. 14 Brent Drive. Hudson, MA 01749 USA

Canada / US Emergency Response Chem-Trek # 1-800-424-9300

Product Name: HI-GEAR Total Clean Emission Improver with SMT<sup>2</sup>

Product Number: HG110 – 946 ml,

HMIS Code:

Health-2

Flammability-2

Reactivity-0

### SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS/Reg No.	Percentage	Exposure Limits
#2 Diesel Fuel	68334-30-5	44-45	Not Established
1-Nonene	124-11-8	44-45	Not Established
Solvent Naptha, light aromatic	64742-95-6	4.0-9.0%	OSHA TWA 500 PPM ACGIH TLV Not Established
Benzene, 1,2,4 – trimethyl	95-63-6	1.0 – 5.0%	OSHA TWA 25 PPM ACGIH TLV 25 PPM
Xylene	1330-20-7	0.1 – 1.0%	OSHA TWA 100 PPM ACGIH TLV 150 STEL
Cumene	98-82-8	0.1 – 1.0%	OSHA TWA 50 PPM/Skin ACGIH TLV 50 PPM
O-Xylene	95-47-6	0.1-1.0%	OSHA TWA 100 PPM ACGIH TLV 150 PPM STEL
N-Propylbenzene	103-65-1	0.1-1.0%	OSHA TWA Not Established ACGIH TLV Not Established
Benzene, 1,2,3-trimethyl	526-73-8	0.1-1.0%	OSHA 500 PPM ACGIH TLV Not Established
Benzene, 1,3, 5-trimethyl	108-67-8	0.1-1.0%	OSHA TWA 500 PPM ACGIH TLV Not Established
Polyolefin alkyl phenol Alkylamine mixture	N/A	1.0-5.0%	OSHA TWA Not Established ACGIH TLV Not Established
2-Ethyl hexanol	104-76-7	0.1-1.0%	OSHA TWA Not Established ACGIH TLV Not Established
Fragrance Mask Trade Secret	N/A	< 0.5%	OSHA TWA Not Established ACGIH TLV Not Established
SMT <sup>2</sup> Trade Secret	N/A	< 4.0%	OSHA TWA Not Established ACGIH TLV Not Established

### SECTION 3 – HAZARDS IDENTIFICATION

<b>Warning:</b>	Flammable liquid. Aspiration of liquid into the lungs can produce chemical pneumonia. Prolongs contact may cause skin irritation, burning, and/or Dermatitis. May aggravate existing medical conditions. See information below.
<b>Eyes:</b>	May cause burning, irritation, redness, inflammation or possible corneal or optic nerve injury. May cause painful sensation to light.
<b>Skin Contact</b>	Prolonged or repeated contact may cause severe irritation, dermatitis or defatting of the skin. May be absorbed through the skin in harmful amounts.
<b>Inhalation:</b>	Harmful if inhaled. Vapor may affect the central nervous system (CNS) and cause dizziness, headache convulsions or death. May cause visual impairment and possible permanent blindness. Causes irritation of the mucous membranes.
<b>Ingestion:</b>	May be fatal or cause blindness if swallowed. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, and drowsiness. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. May cause cardiopulmonary system effects.
<b>Other:</b>	Pro-longed or repeated skin contact may cause dermatitis. Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion. Chronic exposure may cause reproductive disorders and teratogenic effects. Laboratory experiments have resulted in mutagenic effects. Prolongs exposures may cause liver, kidney, and heart damage. Pre-existing medical disorders such as respiratory problems may be aggravated.

### SECTION 4 – EMERGENCY FIRST AID MEASURES

<b>Ingestion:</b>	Do not induce vomiting. Seek medical attention immediately.
<b>Inhalation:</b>	Remove to fresh air. If breathing is difficult, give oxygen. If breathing has ceased, do not do mouth to mouth resuscitation. Give artificial respiration using a mechanical device such as a gavage mask. Seek medical attention immediately.
<b>Skin Contact:</b>	Remove contaminated clothing. Wash affected area with plenty of soap and water for at least 15 minutes. Seek medical attention immediately if irritation develops or persists.
<b>Eye Contact:</b>	Flush with large amounts of water for 15 minutes, occasionally lifting the eyelids, seek medical attention immediately.

### SECTION 5 — FIREFIGHTING MEASURES

<b>Flash Point:</b> 54°F. <b>METHOD:</b> CC	
<b>Extinguishing Media:</b>	Use carbon dioxide, alcohol resistant foam, dry chemical or water spray.
<b>Flammable Limits IN AIR % BY VOL:</b>	LEL=6.0; UEL= 36
<b>Hazardous Combustion Products:</b>	Carbon monoxide and dioxide, partially bunt hydrocarbons.
<b>Special Fire Fighting Procedures:</b>	Use self-contained breathing apparatus and full firefighter PPE. Containers exposed to fire and heat can build up pressure. Use water spray to blanket fire, cool fire exposed container, and flush non-ignited spills and vapors away from fire. Water runoff can be dangerous to the environment. Dike and collect water runoff from firefighting efforts if possible. Vapors can flow along to distant ignition sources and flash back.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>Spills or Leaks:</b>	Wear proper personal protective equipment to clean up any spilled materials. Eliminate all potential ignition sources. Use proper ventilation. Keep the area isolated. Use proper grounding and bonding procedures as well as non-sparking equipment and absorbent to pick up spills of excess material. All used and unused product should be disposed of in accordance with federal, state and local regulations.
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### SECTION 7 –HANDLING AND STORAGE

<b>Handling Precautions:</b>	Use proper grounding and bonding procedures. Wash immediately if in contact with eyes or skin, or clothing or after handling material. Avoid breathing mist or vapor. Use only with adequate ventilation.
<b>Storage Requirements:</b>	Keep container closed when not in use. Handle open containers with care. Store in a cool, well-ventilated place away from incompatible materials. DO NOT handle or store near an open flame, heat or other ignition sources. Protect material from direct sunlight.
<b>Other:</b>	Use explosion proof machinery. Assure grounding and bonding of containers is done before use of product to help prevent possible static build-up.

## SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Protection Clothing/ Equipment:</b>	Wear chemically protective gloves and safety glass. Use splash apron or suits and boots if splashing may occur.
<b>Respiratory Controls:</b>	Use NIOSH approved respirators or self-contained breathing apparatus above exposure limits. Follow OSHA regulations 29 CFR 1910.134.
<b>Engineering Controls:</b>	Adequate ventilation to prevent accumulation of air vapors. Use mechanical means if necessary to maintain levels below exposure limits. If working in confined space, follow OSHA regulations.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Specific Gravity (Water=1):</b> 0.8	<b>Vapor Pressure:</b> 128mmHg @ 20° C	<b>Vapor Density (Air=1):</b> 1.11
<b>% Volatile by Volume:</b> at 70°F., 100	<b>Evaporation Rate:</b> 5.2 (Ether = 1)	<b>Boiling Point:</b> 147°F
<b>Appearance and Odor:</b> Clear, colorless. Alcohol like, weak odor.	<b>pH:</b> Not Applicable	
<b>Solubility in Water:</b> Miscible in Water	<b>Freezing/melting point:</b> -98° C	<b>State:</b> Liquid

## SECTION 10 – STABILITY AND REACTIVITY INFORMATION

<b>Stability:</b>	Stable under normal conditions and use.
<b>Conditions to Avoid:</b>	Excessive heat, flames, sources of ignition, and incompatibles.
<b>Incompatibilities:</b>	Strong oxidizers, acids, aldehydes. Will attack some forms of plastic, rubber and coatings. May react with metallic aluminum and generate hydrogen gas
<b>Hazardous Decomposition:</b>	Carbon monoxide, carbon dioxide, formaldehyde, when heated to decomposition.
<b>Hazardous Polymerization:</b>	Will not occur

## SECTION 11 – TOXICOLOGY INFORMATION

<b>Carcinogenicity:</b>	Not applicable
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## SECTION 12 – ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Toxic to aquatic life/organisms in high concentrations. May be dangerous if it enters water intakes.
<b>Environmental Fate:</b>	Methyl Alcohol/Methanol is expected to biodegrade in soil and water very rapidly. This product will show high soil mobility and will be degraded from the ambient atmosphere by

the reaction with photo-chemically produced hydroxyl radicals with an estimated half-life of 17.8 days.

### SECTION 13 – DISPOSAL CONSIDERATIONS

**Disposal:** Dispose all used and unused product in accordance with all applicable local, state, and federal regulations/laws. Contact your local or state agency for specific rules and/or regulations. Do not dump into sewer, on the ground or in to water.

### SECTION 14 – TRANSPORTATION INFORMATION

**Shipping Name:** Methanol, 3, UN1230, PG-II  
**Labels Required:** Flammable

This description is provided to assist in the proper classification of this product and may not be suitable for all shipping conditions.

### SECTION 15 – REGULATORY INFORMATION

**TSCA:** All components are listed under TSCA.  
**SARA Title III:** Section 311/312: Acute, Chronic, Fire  
Section: 313: Methyl Alcohol, Methanol  
**California Prop 65:** This product contains a chemical known to the State of California to cause cancer, birth defects and other reproductive harm.

### SECTION 16 – DISCLAIMER

This data sheet does not constitute an assessment of the workplace risks as required under the provisions of the Health & Safety at Work act and the Control of Substances Hazardous to Health (COSHH). *To the best of our knowledge, the information contained herein is accurate; obtained from sources believed by NLS Products to be accurate. Since the conditions and methods of use of our product are beyond our control, we disclaim any and all liability arising out of the improper use of this product or the information provided herewith.*

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