



# Horizon Synthetic HD 5W-40 SDS - Safety Data Sheet

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** ECOSE Horizon Synthetic HD Engine Oil, SAE 5W-40

**Other means of identification:** Synthetic Motor Oil, API CK-4/SN

**SDS Number:** 531501

**CAS Number:** Blend

**CHEMTREC:** 1-800-424-9300 (For emergencies)

**Supplier:**

Nu-Tier Brands, Inc.

8282 S. Memorial Dr., Suite 302

Tulsa, OK 74133

1-877-771-5823 (For Product Information)

[www.nu-tierbrands.com](http://www.nu-tierbrands.com)

## 2. HAZARDS IDENTIFICATION

**Classified Hazards**

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**Other Hazards**

None Known

Label Elements
No classified hazards

**GENERAL PRECAUTIONARY STATEMENT(S):**

Keep out of reach of children.

Read label before use.

Wash skin thoroughly after handling.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/attention if you feel unwell.

**PREVENTION PRECAUTIONARY STATEMENT(S):**

Not applicable.

**RESPONSE PRECAUTIONARY STATEMENT(S):**

Not applicable.

**STORAGE PRECAUTIONARY STATEMENT(S):**

Store in a dry place.

Store in a closed container.

**DISPOSAL PRECAUTIONARY STATEMENT(S):**

Dispose of contents/containers should be cleaned of residual product before disposal, and disposed of in accordance with all applicable laws and regulations.

**OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION:**

No additional information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	Concentration
Synthetic Base Stocks	Mixture	70-80%
Additives	Proprietary	<30%

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

## 4. FIRST AID MEASURES

**EYE CONTACT FIRST AID:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**SKIN CONTACT FIRST AID:** Wash with plenty of soap and water. Remove contaminated clothing and shoes.

**INHALATION FIRST AID:** If inhaled, move victim to fresh air and keep at rest in a position comfortable for breathing.

**INGESTION FIRST AID:** Rinse mouth. Do NOT induce vomiting.

**NOTES TO PHYSICIAN:** Treat symptomatically.

## 5. FIREFIGHTING MEASURES

### NFPA 704 Hazard Class

Health: 1      Flammability: 1      Reactivity: 0



0 (Minimal)  
1 (Slight)  
2 (Moderate)  
3 (Serious)  
4 (Severe)

**Flash Point Minimum:** 448°F / 231°C

**Flash Point Test Method:** Cleveland Open Cup (COC)

**NFPA FLAMMABILITY CLASSIFICATION:** NFPA Class-IIIB combustible material

**FLAMMABLE LIMITS IN AIR:** LEL: N/A  
UEL: N/A

**Extinguishing Media:** Carbon dioxide, water fog, foam or dry powder. Do not use water, because this product is oil based. Water or foam may cause frothing.

**Specific hazards arising from the chemical:**

**Fire & Explosion Hazards:** Can burn in fire, releasing toxic vapors, fumes, and smoke.

**Hazardous Combustion Products:** Hazardous decomposition products are oxides of carbon and nitrogen including CO and CO<sub>2</sub>.

## 6. ACCIDENTAL RELEASE MEASURES

### SAFEGUARDS (PERSONNEL):

Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction.

### INITIAL CONTAINMENT:

Absorb spills with inert material. Do not allow material to enter soil or surface water.

### LARGE SPILLS PROCEDURE:

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Do not flush to sewer.

### SMALL SPILLS PROCEDURE:

Absorb spills with inert material.

### MISCELLANEOUS:

Treat or dispose of in accordance with all federal, state, and local requirements. Incineration is preferred.

## 7. HANDLING AND STORAGE

### HANDLING (PERSONNEL):

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of. Wash hands thoroughly after handling.

### HANDLING (PHYSICAL ASPECTS):

Secure container after each use. Store in a cool dry area.

Avoid contact with strong oxidizing agents.

### STORAGE PRECAUTIONS:

Store in a cool dry place, in a tightly closed container. Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction.



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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

MATERIAL	SOURCE	TYPE	Mg/m3
Highly Refined Base Oil	ACGIH TLV	TWA (Inhalable fraction)	5 mg/m3
Highly Refined Base Oil	NIOSH REL	TWA	5 mg/m3
Highly Refined Base Oil	NIOSH REL	STEL (Mist)	10 mg/m3
Highly Refined Base Oil	OSHA PEL	TWA	5 mg/m3

**ENGINEERING CONTROLS:**

Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. TLV for mineral oil is 5 mg/cubic meter.

**EYE / FACE PROTECTION REQUIREMENTS:**

When splashing of the material may occur, chemical goggles and/or a face shield are recommended.

**SKIN PROTECTION REQUIREMENTS:**

Where contact is likely, wear chemical resistant gloves.

**RESPIRATORY PROTECTION REQUIREMENTS:**

Under normal use conditions, with adequate ventilation, no special handling equipment is required. If mists are produced, local ventilation may be required to keep exposure below limits.

**GENERAL COMMENTS:**

Always observe good personal hygiene practices. Wash hands and other exposed skin areas with plenty of mild soap and water before eating, drinking, smoking, etc...

### 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM .....	Liquid
COLOR .....	Amber to Dark Amber
ODOR .....	Petroleum
VAPOR DENSITY.....	Heavier than air (Air = 1)
SOLUBILITY IN WATER..	Nil
SPECIFIC GRAVITY.....	0.8548 at 60 °F (Water = 1)
BULK DENSITY.....	7.12 Pounds per Gallon at 60 °F
POUR PT.....	N/D
pH .....	Not Applicable
VISCOSITY.....	15.4 cSt at 100 °C

### 10. STABILITY AND REACTIVITY

**STABILITY:** Material is stable under normal conditions.

**POLYMERIZATION:** Hazardous polymerization will not occur.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Avoid contact with strong oxidizing agents.

**DECOMPOSITION:** In the case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

**CONDITIONS TO AVOID:** Excessive heat. Avoid all sources of ignition.

### 11. TOXICOLOGICAL INFORMATION

**GENERAL INFORMATION:**

Based on data on the components and the toxicology of similar materials

**ROUTES OF ENTRY:**

Skin, Eyes, Ingestion, and Inhalation.

**ACUTE EXPOSURE:****EYE IRRITATION:**

Not expected to cause eye irritation. Based on data from components or similar materials.

Vapors may cause irritation.

**SKIN IRRITATION:**

Slightly irritating based on data from components or similar materials. Prolonged or repeated skin contact without proper hygiene may result in skin disorders such as acne.



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**RESPIRATORY IRRITATION:**

Based on data from components and similar materials, Inhalation of vapors or mists may cause irritation.

**DERMAL TOXICITY:**

Expected to be of low toxicity: LD50 > 5000 mg/kg, Rabbit

**ORAL TOXICITY:**

Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat

**INHALATION TOXICITY:**

Based on data from components and similar materials, product is not considered to be an inhalation hazard under normal conditions of use.

**SENSITIZATION:**

Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components or similar formulations.

**CRONIC EXPOSURE:****CHRONIC TOXICITY:**

No data available to indicate product or components present at greater than 1% are chronic health hazards.

**CARCINOGENICITY:**

Product contains mineral and/or synthetic oils shown to be noncarcinogenic in laboratory studies with the same or similar materials. Mineral and synthetic oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.

**MUTAGENICITY:**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**REPRODUCTIVE TOXICITY:**

No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.

**TERATOGENICITY:**

No data available to indicate either product or components present at greater than 0.1% that may cause birth defects.

**ADDITIONAL INFORMATION:**

No other health hazards known.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:**

Ecological Toxicity data has not been determined specifically for this product. The ecological toxicity hazard is based on an evaluation of data for the components or a similar material. This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

**ENVIRONMENTAL FATE**

This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material. This product contains components which may be persistent in the environment.

## 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:**

Avoid disposal into waste water treatment facilities. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. This product, if discarded, is not considered a hazardous waste.

## 14. TRANSPORTATION INFORMATION

**PRODUCT LABEL:**

Gulf Synthetic Super Duty Plus 5W-40

**D.O.T SHIPPING:**

Not Regulated by DOT.

**IMDG:**

This material is not classified as dangerous under IMDG regulations.

**IATA:**

This material is not classified as dangerous under IATA regulations.

**TRANSPORT CANADA:**

This material is not classified as dangerous under Transport Canada regulations.



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## 15. REGULATORY INFORMATION

### OSHA Hazard Communication Standard:

The classification of this material is based on OSHA HCS 2012 criteria.  
United States inventory (TSCA): All components are listed or exempted.  
Canada inventory: All components are listed or exempted.  
Europe inventory: All components are listed or exempted.  
Japan inventory (ENCS): All components are listed or exempted.  
Australia inventory (AICS): All components are listed or exempted.  
Korea inventory (KECI): All components are listed or exempted.  
China inventory (IECSC): All components are listed or exempted.  
Philippines inventory (PICCS): All components are listed or exempted.

## 16. OTHER INFORMATION

REASON FOR ISSUE .....: Revised  
APPROVAL DATE .....: October 23, 2017  
SUPERCEDES DATE.....: January 25, 2017  
PRODUCT ID.....: 531500

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

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END OF MSDS