



Safety Data Sheet

Issuing Date 19-May-2015

Revision Date 19-May-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name Duraflow Synthetic GL-5 LS 80W-140

Other means of identification

Product Code(s) 5007

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use Gear Oil, Lubricant.

Uses advised against All Other Uses

Details of the supplier of the safety data sheet

Distributor

Valor Oil LLC
1200 Alsop Lane
Owensboro, KY 42303
800-544-5823

Emergency telephone number

Company Emergency Phone Number (618)542-5431

Emergency telephone number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|-------------------------------------|------------|
| Acute toxicity - Inhalation (Gases) | Category 4 |
| Skin sensitization | Category 1 |

Label elements

EMERGENCY OVERVIEW

WARNING

Hazard statements

Harmful if inhaled
May cause an allergic skin reaction



Appearance Amber colored liquid **Physical state** viscous liquid **Odor** Mild petroleum odor Mild sulfur odor

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves

Precautionary Statements - Response

Specific treatment (see supplemental first aid instruction on this label)
 IF ON SKIN: Wash with plenty of soap and water
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician if you feel unwell

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

- May be harmful in contact with skin
- Harmful to aquatic life with long lasting effects
- Harmful to aquatic life

Unknown Aquatic Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name Synthetic hydrocarbon lubricating fluid.
Chemical Family Petroleum hydrocarbon mixture.

| Chemical name | CAS-No | Weight % | Trade secret |
|--|-------------|-----------|--------------|
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | 48.9 | * |
| Poly long-chain alkyl methacrylate | Proprietary | 1.26-2.1 | * |
| Long-chain alkyl amine | Proprietary | 0.26-0.52 | * |
| Long-chain alkenyl amine | Proprietary | 0.05-0.26 | * |
| Alkyl Phosphonate | Proprietary | 0.05-0.26 | * |
| Alkoxylated long-chain alkanol borate | Proprietary | 0.12-0.24 | * |
| Long-chain alkyl amine | Proprietary | 0.04-0.18 | * |
| Long-chain alkyl amine | Proprietary | 0.02-0.12 | * |
| Alkyl dithio thiadiazole | Proprietary | 0.02-0.12 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

| | |
|-----------------------|---|
| General advice | No hazards which require special first aid measures. |
| Eye contact | Flush eyes for 30 minutes with water. Get medical attention if irritation persists. |
| Skin contact | Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention. |
| Inhalation | Move exposed persons to fresh air. Consult medical personnel if breathing issues occur. |
| Ingestion | Do NOT induce vomiting. Consult a physician. |

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO₂). Dry chemical. Foam. Water can be used to keep surrounding materials cool.

Small Fires Always use personal safety equipment. Follow appropriate personal safety procedures, and extinguishing media.

Large Fires Contact emergency personnel.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Combustible material.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂).

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal protection Avoid contact with the skin and the eyes. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. Wash skin with soap and water if contact occurs. Launder soiled clothing. If spilled, take caution, as material can cause surfaces to become very slippery.

For emergency responders Clean up area with absorbent material and place in closed containers for disposal. Ventilate the area.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

| | |
|--------------------------------|---|
| Methods for containment | Cover with earth, sand, or other non-combustible material followed with plastic sheets to minimize spreading or contact with rain. |
| Methods for cleaning up | Excess liquid material can be collected using a scoop or shovel and stored for recycling or disposal. Prevent material from entering drains or waterways. |

7. HANDLING AND STORAGE

Precautions for safe handling

| | |
|--------------------------------|--|
| Advice on safe handling | Avoid contact with skin, eyes and clothing. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. If contact is made, wash skin with soap and water. Launder soiled clothing. Maximum handling temperature is 70 degrees C (158 F). It is recommended to pump or transfer material at ambient temperature. |
|--------------------------------|--|

Conditions for safe storage, including any incompatibilities

| | |
|------------------------------|---|
| Storage Conditions | Keep away from heat and sources of ignition. Keep containers closed when not in use. Follow first aid measures if contact occurs, and spill procedures if spill occurs. For packaged material: Store in a cool dry area. For bulk material: store in cool dry area. Always follow local, state, and federal guidelines for storage of material for amount stored. |
| Incompatible Products | Strong oxidizing agents. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| | |
|----------------------------|---|
| Exposure guidelines | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|----------------------------|---|

Appropriate engineering controls

| | |
|-----------------------------|---|
| Engineering Controls | Showers Eyewash stations Ventilation systems. |
|-----------------------------|---|

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------------|---|
| Eye/face Protection | If splashes are likely to occur, wear: Goggles. Eye/face Protection. |
| Skin and body protection | Long sleeved clothing. Protective gloves can be worn, if material comes in contact with skin wash with soap and water. |
| Respiratory protection | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| General Hygiene Considerations | Remove and wash contaminated clothing before re-use. |

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|----------------------|-----------------------|--------------------------|
| Physical state | viscous liquid | Odor | Mild petroleum odor |
| Appearance | Amber colored liquid | | Mild sulfur odor |
| Color | amber | Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---------------------------------|--------------------------|-------------------------|
| pH | No information available | |
| Melting point/freezing point | No information available | |
| Boiling Point/Range | No information available | |
| Flash point | > 93.3 °C / > 200 °F | |
| Evaporation rate | No information available | |
| Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | | |
| Upper flammability limit: | No information available | |
| Lower flammability limit: | No information available | |
| Vapor pressure | No information available | |
| Vapor density | No information available | |
| Specific gravity | 0.87 | |
| Water solubility | No information available | |
| Solubility in other solvents | No information available | |
| Partition coefficient | No information available | |
| Autoignition temperature | | |
| Decomposition temperature | No information available | |
| Kinematic viscosity | No information available | |
| Dynamic viscosity | No information available | |
| Explosive properties | No information available | |
| Oxidizing properties | No information available | |
| <u>Other information</u> | | |
| Softening point | No information available | |
| VOC Content | No information available | |
| Density | No information available | |
| Bulk density | No information available | |

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Excessive heat. High energy sources of ignition.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|----------------------------|---|
| Product Information | No data available |
| Inhalation | Inhalation of vapors in high concentration may cause irritation of respiratory system. Harmful by inhalation. |
| Eye contact | Avoid contact with eyes. May cause irritation. |
| Skin contact | May cause eye/skin irritation. Repeated exposure may cause skin dryness or cracking. |

Ingestion

Do NOT taste or swallow.

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--------------------------|--------------------|-----------------------|--------------------|
| Long-chain alkyl amine | 612 mg/kg (Rat) | 251 mg/kg (Rat) | 157 ppm (Rat) 4h |
| Long-chain alkenyl amine | 1689 mg/kg (Rat) | - | - |
| Alkyl Phosphonate | 3200 mg/kg (Rat) | 1990 mg/kg (Rabbit) | - |
| Long-chain alkyl amine | 612 mg/kg (Rat) | 251 mg/kg (Rat) | - |
| Long-chain alkyl amine | 612 mg/kg (Rat) | 251 mg/kg (Rat) | 157 ppm (Rat) |

Information on toxicological effects**Symptoms**

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Sensitization**

May cause sensitization by skin contact.

Germ cell mutagenicity

No information available.

Carcinogenicity

Mineral oils are known to cause cancer because of carcinogenic components (e.g. benzene). The mineral oil in this product is highly refined and should not be considered a carcinogen. Used lubricating oil may contain hazardous components which have the potential to cause skin cancer. Continuous long-term contact with used lubricating oils has caused skin cancer in animal tests. .

| Chemical name | ACGIH | IARC | NTP | OSHA |
|--|-------|---------|-----|------|
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | - | Group 1 | - | X |

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information**Unknown Aquatic Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 5287 mg/kg

ATEmix (dermal) 2983 mg/kg

ATEmix (inhalation-gas) 17018 ppm

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life

Harmful to aquatic life with long lasting effects

3.28% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|--|----------------------|--|------------------------------------|
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | - | 5000: 96 h Oncorhynchus mykiss mg/L LC50 | 1000: 48 h Daphnia magna mg/L EC50 |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Waste Disposal Method**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

14. TRANSPORT INFORMATION**DOT**

Not regulated

IATA

PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO TI OR IATA DGR

15. REGULATORY INFORMATION**International Inventories**

| | |
|----------------------|-----------------|
| TSCA | Does not comply |
| DSL/NDSL | Does not comply |
| EINECS/ELINCS | Does not comply |
| ENCS | Does not comply |
| IECSC | Does not comply |
| KECL | Does not comply |
| PICCS | Does not comply |
| AICS | Does not comply |

Legend:**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard

No

| | |
|-----------------------------------|----|
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals: 2-Propenoic Acid, Ethyl Ester

U.S. State Right-to-Know Regulations**U.S. EPA Label Information**

EPA Pesticide registration number Not Applicable

| |
|------------------------------|
| 16. OTHER INFORMATION |
|------------------------------|

| | | | | |
|-------------|------------------|----------------|--------------------|---------------------------------|
| NFPA | Health hazards 1 | Flammability 1 | Instability 0 | Physical and Chemical Hazards - |
| HMIS | Health hazards 1 | Flammability 1 | Physical hazards 0 | Personal protection X |

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Revision Note

Initial Release

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS