



High Performance Lubricants

GEARSYN 80W/140

HEAVY DUTY SYNTHETIC GEAR LUBRICANT

SAFETY DATA SHEET

Issue Date 23-March-2015

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Version 1

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

Product identifier

Product Name GEARSYN 80W/140

Other means of identification

Product code: GEARSYN 80W/140

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

Petrochem, Inc.
6N999 Whispering Trail Road
St. Charles, IL 60175
Phone: (630) 513-6350
Fax: (6300) 513-8324

Emergency telephone number

Emergency Telephone CHEMTREC: 1-800-424-9300; INTERNATIONAL: (703) 527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Serious eye damage/eye irritation	Category 2A
Skin sensitization	Sub-category 1B

Label elements

EMERGENCY OVERVIEW

Signal word

Warning

Hazard statements

Causes serious eye irritation

May cause an allergic skin reaction



Appearance Oil**Physical state** Liquid**Odor** Slight Sulphurous**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves/protective clothing/eye protection/face protection

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

If eye irritation persists: Get medical advice/attention

Skin 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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other information**

• Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity

3.71823% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Components	CAS-No	Weight %	Trade Secret
Petroleum process oil	64742-52-5	1-10	*
Olefin Sulfide	68937-96-2	1-10	*
Hydrotreated Distillate, Light Paraffinic	64742-55-8	1-5	*
2,5-bis(n-octylidithio)-1,3,4-thiadiazole	13539-13-4	0.1-0.3	*
Alkenyl imidazoline	27136-73-8	0.1-0.2	*

4. FIRST AID MEASURES**First aid measures****Eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**Skin contact:** Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.**Inhalation:** In the case of inhalation of aerosol/mist consult a physician if necessary.**Ingestion:** Do not induce vomiting without medical advice. Drink 1 or 2 glasses of water. Consult a physician if necessary.**Most important symptoms and effects, both acute and delayed****Symptoms** No information available.**Indication of any immediate medical attention and special treatment needed****5. FIRE-FIGHTING MEASURES****Suitable extinguishing media:**Carbon dioxide (CO₂). Dry chemical. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire, cool tanks with water spray.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Special protective equipment 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 precautions: Contaminated surfaces will be extremely slippery. Wear personal protective equipment.

Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Components	ACGIH TLV	OSHA (TWA mg/m ³):	IDLH:
Petroleum process oil - 64742-52-5	5 mg/m ³ (oil mist)	5 mg/m ³ (oil mist)	
Hydrotreated Distillate, Light Paraffinic - 64742-55-8	5 mg/m ³ (oil mist)	5 mg/m ³ (oil mist)	

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection: Breathing apparatus needed only when aerosol or mist is formed.

Hand protection: Gloves made of plastic or rubber

Eye protection: Safety glasses

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect

General Hygiene Considerations Avoid contact with skin, eyes and clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid		Odor Slight Sulphurous	Color Clear
Appearance Oil			Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	<u>pH</u>	<u>Not applicable</u>
Melting point/freezing point	No information available		Boiling point / boiling range	> 315 °C / 600 °F
Flash point	> 204 °C / 400 °F	Cleveland Open Cup	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	< 0.9		Water solubility	Insoluble in water
Solubility in other solvents	No information available		Partition coefficient	No information available
Autoignition temperature	No information available		Decomposition temperature	No information available
Kinematic viscosity	approx. 283 cSt @ 40 ° C		Dynamic viscosity	No information available
Explosive properties		No information available		
Oxidizing properties		No information available		

Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

Not applicable

Chemical stability

Stability	Stable under normal conditions
<u>Possibility of Hazardous Reactions</u>	
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid	No special storage conditions required
<u>Hazardous Decomposition Products</u>	

Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors
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Incompatible materials

Incompatible materials

Oxidising agents

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information
Eye contact	Contact with eyes may cause irritation.
Skin contact	Substance does not generally irritate and is only mildly irritating to the skin. May cause sensitization by skin contact.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Components	Oral LD50	Dermal LD50	Inhalation LC50
Olefin Sulfide - 68937-96-2	= 6500 mg/kg (Rat)	-	-
Hydrotreated Distillate, Light Paraffinic - 64742-55-8	-	-	= 3900 mg/m ³ (Rat) 4 h

Information on toxicological effects

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

Sensitization	May cause sensitization by skin contact.
Mutagenic effects:	Did not show mutagenic or teratogenic effects in animal experiments.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity	This product does not contain any known or suspected reproductive hazards.
STOT - Single Exposure	None under normal use conditions.
STOT - Repeated Exposure	None under normal use conditions.
Aspiration hazard	Not applicable.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity	3.71823% 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)	6420 mg/kg
ATEmix (dermal)	9051 mg/kg
ATEmix (inhalation-dust/mist)	27311 mg/l
ATEmix (inhalation-vapor)	13116mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

May cause long lasting harmful effects to aquatic life

3.146% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Hydrotreated Distillate, Light Paraffinic 64742-55-8	
Algae/aquatic plants	-
Fish	5000: 96 h Oncorhynchus mykiss mg/L LC50
Crustacea	1000: 48 h Daphnia magna mg/L EC50
Petroleum process oil 64742-52-5	
Algae/aquatic plants	-
Fish	250 - 500: 96 h Pimephales promelas mg/L LC50 static 1000: 96 h Pimephales promelas mg/L LC50 semi-static
Crustacea	1000: 48 h Daphnia magna mg/L EC50
Hydrotreated Distillate, Light Paraffinic - 64742-55-8	
Algae/aquatic plants	5000: 96 h Oncorhynchus mykiss mg/L LC50
Fish	1000: 48 h Daphnia magna mg/L EC50
Crustacea	Olefin Sulfide 68937-96-2

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

The product is insoluble and floats on water.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal of wastes	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 by any means of transportation

15. REGULATORY INFORMATION**International Inventories**

TSCA:	Listed in TSCA
DSL:	All of the components in this product are listed in DSL
EINECS/ELINCS	This product complies with EINECS/ELINCS
CHINA:	This product complies with China IECSC.
KECL:	This product complies with Korea KECL.
PICCS:	This product complies with Philippines PICCS.
AICS:	All the constituents of this material are listed on the Australian AICS

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European 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

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	Yes
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Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (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

State Regulations (RTK)**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Components	NJRTK:	MARTK:	PARTK:
Petroleum process oil - 64742-52-5	Substance no. 1437 Listed. Substance no. 4004 Listed.	Not Listed	Not Listed
Hydrotreated Distillate, Light Paraffinic - 64742-55-8	Substance no. 1437 Listed. Substance no. 4004 Listed.	Listed.	Not Listed

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

Nfpa:

Health: 1

Flammability: 1

Instability 0

NFPA/HMIS * for Carc, Muta, Tera, Specific Organ *

HMIS health rating:

Health: 2

Flammability: 1

Physical hazards 0

Personal protection B

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Revision Note

Not applicable

Disclaimer

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet