

SAFETY DATA SHEET

SDS: 5100A

5100 PYROSHIELD® SYN OPEN GEAR GREASE

Issuing Date 04-16-2012

Revision Date 05-13-2020

Revision Number 3.2

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

Product Identifier

Product Name 5100 PYROSHIELD® SYN OPEN GEAR GREASE

Other means of identification

UN-No 1950

Synonyms No information available

Recommended use of the chemical and restrictions on use

Identified uses Lubricant

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Manufacturer

Lubrication Engineers Inc.
1919 E. Tulsa
Wichita, KS 67216
USA
800-537-7683

Emergency Telephone Number

CHEMTREC: 1-800-424-9300 (NORTH AMERICA)
+1-703-527-3887 (INTERNATIONAL)

SDS: 5100A

5100 PYROSHIELD® SYN OPEN GEAR GREASE

Issuing Date 04-16-2012

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Revision Number 3.2

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Flammable Aerosols	Category 1
Gases Under Pressure	Compressed Gas

Label Elements

Emergency Overview

Signal Word

DANGER

Hazard Statements

Causes skin irritation
 Causes serious eye irritation
 May cause respiratory irritation. May cause drowsiness or dizziness
 Extremely flammable aerosol
 Pressurized container: may burst if heated
 Contains gas under pressure; may explode if heated

**appearance** purple**Physical state** Aerosol**Odor** Hydrocarbon-like

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Do not spray on an open flame or other ignition source. Wear protective gloves/protective clothing/eye protection/face protection.

Response

Specific treatment (see .? on this label).

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 skin irritation occurs: Get medical advice/attention.

Inhalation

None.

Ingestion

Do NOT induce vomiting.

SDS: 5100A

5100 PYROSHIELD® SYN OPEN GEAR GREASE

Issuing Date 04-16-2012

Revision Date 05-13-2020

Revision Number 3.2

Fire

None.

Spill

None.

Storage

Store locked up. Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 122 °F (50 °C).

Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Naphtha, petroleum, hydrotreated light	64742-49-0	20 - 30
Petroleum distillates, hydrotreated light	64742-47-8	10 - 20
1,1-Difluoroethane	75-37-6	10 - 20
Zinc pyrophosphate	7446-26-6	5 - 10
Dimethyldihydrogenatedtallow ammonium montmorillonite	68911-87-5	5 - 10
antimony dialkyldithiocarbamate	15890-25-2	5 - 10

The producer of "5100" declares that it contains less than 3% DMSO extractable material by IP-346

4. FIRST AID MEASURES

First Aid Measures**General Advice**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is not required.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. If symptoms develop move victim to fresh air.

Inhalation

If symptoms develop move victim to fresh air. Move to fresh air. Move to fresh air in case of accidental inhalation of vapors.

Ingestion

Drink plenty of water. Do NOT induce vomiting. Immediate medical attention is not required. May cause adverse kidney effects.

Protection of First-aiders

Use personal protective equipment.

Most important symptoms and effects, both acute and delayed**Symptoms**

None known.

Indication of any immediate medical attention and special treatment needed

SDS: 5100A

5100 PYROSHIELD® SYN OPEN GEAR GREASE

Issuing Date 04-16-2012

Revision Date 05-13-2020

Revision Number 3.2

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point -20 °C / -4 °F

Suitable Extinguishing Media Cool containers / tanks with water spray

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.

Explosion Data

Sensitivity to Mechanical Impact Not impact sensitive.

Sensitivity to Static Discharge May be ignited by friction, heat, sparks or flames.

Protective Equipment and Precautions for Firefighters In the event of fire and/or explosion do not breathe fumes.

NFPA Health hazard 2 Flammability 4 Stability 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment. Avoid contact with the skin and the eyes. Avoid contact with eyes. Avoid breathing vapors or mists. Remove all sources of ignition. Heat, flames and sparks. .

Environmental Precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Do not apply directly to water. A vapor suppressing foam may be used to reduce vapors. Refer to protective measures listed in Sections 7 and 8. Do not allow material to contaminate ground water system. Environmental Precautions.

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 Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. After cleaning, flush away traces with water. Prevent product from entering drains.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling . Keep away from open flames, hot surfaces and sources of ignition. Contact with other chemicals. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Conditions for safe storage, including any incompatibilities

SDS: 5100A

5100 PYROSHIELD® SYN OPEN GEAR GREASE

Issuing Date 04-16-2012

Revision Date 05-13-2020

Revision Number 3.2

Technical measures/Storage conditions Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

Incompatible products. Strong acids. Strong oxidizing agents. Chlorinated compounds.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Naphtha, petroleum, hydrotreated light 64742-49-0	-	(vacated) TWA: 400 ppm (vacated) TWA: 1600 mg/m ³	IDLH: 1100 ppm Ceiling: 1800 mg/m ³ TWA: 350 mg/m ³
antimony dialkyldithiocarbamate 15890-25-2	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³ (vacated) TWA: 0.5 mg/m ³	IDLH: 50 mg/m ³ TWA: 0.5 mg/m ³

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles.

Skin and Body Protection Long sleeved clothing. Protective gloves.

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Aerosol
appearance	purple
Odor	Hydrocarbon-like
Odor threshold	No information available

Property

pH	6 - 8
Melting Point / Freezing Point	No data available
Boiling Point/Range	no data available
Flash Point	-20 °C / -4 °F
Upper flammability limit:	No data available
Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor Density	< 1 (Air = 1)
Specific Gravity	0.827
Water solubility	negligible

SDS: 5100A

5100 PYROSHIELD® SYN OPEN GEAR GREASE

Issuing Date 04-16-2012

Revision Date 05-13-2020

Revision Number 3.2

Partition Coefficient: n-octanol/water	no data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity, kinematic	not applicable

10. STABILITY AND REACTIVITY

reactivity No information available

Chemical stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to Avoid Heat, flames and sparks.

Incompatible Materials Strong acids. Strong oxidizing agents. Chlorinated compounds.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

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

Inhalation May cause irritation of respiratory tract.

Eye Contact Contact with eyes may cause irritation.

Skin Contact May cause irritation.

Ingestion There is no data available for this product.

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Naphtha, petroleum, hydrotreated light 64742-49-0	> 5000 mg/kg (Rat) > 4300 mg/kg (Rat)	> 3160 mg/kg (Rabbit) > 2000 mg/kg (Rabbit)	= 73680 ppm (Rat) 4 h
Petroleum distillates, hydrotreated light 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
antimony dialkyldithiocarbamate 15890-25-2	> 16400 mg/kg (Rat)	> 16000 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms No information available.

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

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Sensitization No information available.

SDS: 5100A

5100 PYROSHIELD® SYN OPEN GEAR GREASE

Issuing Date 04-16-2012

Revision Date 05-13-2020

Revision Number 3.2

Mutagenic Effects No information available.

Carcinogenicity No information available.

NTP (National Toxicology Program)
Known - Known Carcinogen

Reproductive toxicity No information available.

Target Organ Effects Central nervous system (CNS), Central Vascular System (CVS), Respiratory system, Eyes, Skin.

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 5999 mg/kg
ATEmix (dermal) 2786 mg/kg
ATEmix (inhalation-gas) 96887
ATEmix (inhalation-dust/mist) 96 mg/l

12. ECOLOGICAL INFORMATION

Marine Pollutant This product contains a chemical which is listed as a severe marine pollutant according to DOT.

Ecotoxicity

Chemical name	Algae/aquatic plants	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Naphtha, petroleum, hydrotreated light 64742-49-0	-	LC50= 258 mg/L Salmo gairdneri 96 h	-	LC50 = 2.6 mg/L 96 h EC50 < 0.26 mg/L 48 h EC50 = 36 mg/L 24 h
Petroleum distillates, hydrotreated light 64742-47-8	-	-	-	-

Persistence and Degradability No information available.

Bioaccumulation No information available.

Mobility The product is insoluble and floats on water.

Other Adverse Effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods Should not be released into the environment. Dispose of in accordance with local regulations.

SDS: 5100A

5100 PYROSHIELD® SYN OPEN GEAR GREASE

Issuing Date 04-16-2012

Revision Date 05-13-2020

Revision Number 3.2

Contaminated Packaging Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

US EPA Waste Number D001

This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical name	California Hazardous Waste Status
antimony dialkyldithiocarbamate 15890-25-2	Toxic
Zinc pyrophosphate 7446-26-6	Toxic

14. TRANSPORT INFORMATION

DOT

UN-No 1950
Hazard Class 2.1
Special Provisions 49 CFR 173.115
Emergency Response Guide Number 126

IMDG

UN-No 1950
Proper Shipping Name Aerosol
Hazard Class 2
Subsidiary Class 2.1
Special Provisions SP63
Description Limited quantity (LQ)

ADR/RID

UN-No 1950
Hazard Class 2.1

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
 DSL/NDSL Complies
 NDSL Complies
 EINECS Complies
 ELINCS Not determined
 ENCS Not determined
 IECSC Complies
 KECL Not determined
 PICCS Complies
 AICS Complies

SDS: 5100A

5100 PYROSHIELD® SYN OPEN GEAR GREASE

Issuing Date 04-16-2012

Revision Date 05-13-2020

Revision Number 3.2

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 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

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No.	Weight-%	SARA 313 - Threshold Values %
antimony dialkyldithiocarbamate - 15890-25-2	15890-25-2	9	1.0
Zinc pyrophosphate - 7446-26-6	7446-26-6	9	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
antimony dialkyldithiocarbamate 15890-25-2		X		
Zinc pyrophosphate 7446-26-6		X		

CERCLA

This material does not contain any components with a CERCLA RQ.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

NFPA

Health hazard 2

Flammability 4

Stability 0

16. OTHER INFORMATION

SDS: 5100A

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Reason for revision General Information.

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.

SDS is available at www.LElubricants.com**End of Safety Data Sheet**