

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/28/2020 Revision date: 7/28/2022 Supersedes: 3/30/2022 Version: 2.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Trade name : GEARMATE® 1000 ICT HEAVY

1.2. Recommended use and restrictions on use

Use of the substance/mixture : MULTISERVICE OPEN GEAR LUBRICANT
Recommended use : Lubricants, Greases and Release Products

1.3. Supplier

Manufacturer

Whitmore 930 Whitmore Drive

Rockwall, Texas, 75087

T 1.972.771.1000

Regulatory@whitmores.com - www.whitmores.com

1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call CHEMTREC 24hr/day 7days/week

Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1.703.527.3887

(collect calls accepted)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 2 H319 Causes serious eye irritation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H319 - Causes serious eye irritation

Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

OLI MIXTO			
Name	Product identifier	%	GHS US classification
Distillates (petroleum), hydrotreated heavy naphthenic (Note L)	CAS-No.: 64742-52-5	30 - 40	Not classified
graphite	CAS-No.: 7782-42-5	5 - 10	Not classified
Bis(2-ethylhexyl) phosphorodithioate Zinc Salt	CAS-No.: 4259-15-8	≤ 1.5	Eye Dam. 1, H318

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Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Comments : (Cutoff for Zinc Compound Eye Dam. 1; >50%)

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : 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. Rinse eyes with

water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after eye contact : Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Exercise caution. Spill area may be slippery. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal

protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

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Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)

No additional information available

graphite (7782-42-5)

USA - ACGIH - Occupational Exposure Limits		
Local name	Graphite (all forms excepte graphite fibers)	
ACGIH OEL TWA	2 mg/m³ (R - Respirable particulate matter)	
Remark (ACGIH)	TLV® Basis: Pneumoconiosis	
Regulatory reference	ACGIH 2021	
USA - OSHA - Occupational Exposure Limits		
Local name	Graphite (Natural)	
OSHA PEL (TWA) [2]	15 mppcf	
Remark (OSHA)	Table Z-3. CAS No. source: eCFR Table Z-1.	

OSHA Annotated Table Z-3 Mineral Dusts

Bis(2-ethylhexyl) phosphorodithioate Zinc Salt (4259-15-8)

No additional information available

Regulatory reference (US-OSHA)

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

: Avoid release to the environment. Environmental exposure controls

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Neoprene or nitrile rubber gloves

Туре	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	2 (> 30 minutes)	0.3 mm - 0.6 mm	

Eye protection:

Wear eye protection

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

No respiratory protection needed under normal use conditions

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Appearance : Grease. Color : Black

Odor : petroleum-like odor Odor threshold : No data available рΗ : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available

: > 204 °C Cleveland Open Cup Method Flash point

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable.

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Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available Solubility : insoluble in water. Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available : ≈ 4123 mm²/s @ 40°C Viscosity, kinematic Viscosity, dynamic : No data available **Explosion limits** : No data available Explosive properties : No data available Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11	1 In	formation	on ·	toxical	logical	effects
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Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

graphite (7782-42-5)		
LD50 oral rat	> 2000 mg/kg (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)	
LC50 Inhalation - Rat	> 2000 mg/m³ air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust))	
LC50 Inhalation - Rat (Dust/Mist)	> 2 mg/l Source: ECHA	
Ric(2-athylhavyl) phosphorodithiosta 7inc Salt (A250-15-8)		

Bis(2-ethylhexyl) phosphorodithioate Zinc Salt (4259-15-8)		
LD50 oral rat	3100 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	> 5000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))	
ATE US (oral)	3100 ma/ka body weight	

Skin corrosion/irritation : Not classified

graphite (7782-42-5)	
рН	7 (1.3 %)

Serious eye damage/irritation : Causes serious eye irritation.

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graphite (7782-42-5)	
pH	7 (1.3 %)
1	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	Not classified
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
graphite (7782-42-5)	
NOAEC (inhalation,rat,dust/mist/fume,90 days)	0.000279 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	ılt (4259-15-8)
NOAEL (oral,rat,90 days)	125 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
- F	Not classified
•	≈ 4123 mm²/s @ 40°C
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	alt (4259-15-8)
Viscosity, kinematic	131.6 mm²/s (40 °C, ASTM D445: Capillary viscometer)
Symptoms/effects after eye contact :	Eye irritation.
SECTION 12: Ecological information	
12.1. Toxicity	
	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
graphite (7782-42-5)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	19 mg/l
EC50 72h - Algae [2]	7.2 mg/l
EC50 72h - Algae [2] ErC50 algae	7.2 mg/l > 100 mg/l
ErC50 algae	> 100 mg/l 47 mg/l
ErC50 algae NOEC (chronic)	> 100 mg/l 47 mg/l
ErC50 algae NOEC (chronic) Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	> 100 mg/l 47 mg/l lit (4259-15-8) 46 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinodon variegatus, Semi-static
ErC50 algae NOEC (chronic) Bis(2-ethylhexyl) phosphorodithioate Zinc Sa LC50 - Fish [1]	> 100 mg/l 47 mg/l lit (4259-15-8) 46 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinodon variegatus, Semi-static system, Fresh water, Experimental value, GLP)
ErC50 algae NOEC (chronic) Bis(2-ethylhexyl) phosphorodithioate Zinc Sa LC50 - Fish [1] LC50 - Fish [2]	> 100 mg/l 47 mg/l lit (4259-15-8) 46 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinodon variegatus, Semi-static system, Fresh water, Experimental value, GLP)
ErC50 algae NOEC (chronic) Bis(2-ethylhexyl) phosphorodithioate Zinc Sa LC50 - Fish [1] LC50 - Fish [2] 12.2. Persistence and degradability	> 100 mg/l 47 mg/l lit (4259-15-8) 46 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinodon variegatus, Semi-static system, Fresh water, Experimental value, GLP)
ErC50 algae NOEC (chronic) Bis(2-ethylhexyl) phosphorodithioate Zinc Sa LC50 - Fish [1] LC50 - Fish [2] 12.2. Persistence and degradability graphite (7782-42-5)	> 100 mg/l 47 mg/l Ilt (4259-15-8) 46 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinodon variegatus, Semi-static system, Fresh water, Experimental value, GLP) 46 mg/l Test organisms (species):
ErC50 algae NOEC (chronic) Bis(2-ethylhexyl) phosphorodithioate Zinc Sa LC50 - Fish [1] LC50 - Fish [2] 12.2. Persistence and degradability graphite (7782-42-5) Not rapidly degradable	> 100 mg/l 47 mg/l Ilt (4259-15-8) 46 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinodon variegatus, Semi-static system, Fresh water, Experimental value, GLP) 46 mg/l Test organisms (species):
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ErC50 algae NOEC (chronic) Bis(2-ethylhexyl) phosphorodithioate Zinc Sa LC50 - Fish [1] LC50 - Fish [2] 12.2. Persistence and degradability graphite (7782-42-5) Not rapidly degradable Bis(2-ethylhexyl) phosphorodithioate Zinc Sa Persistence and degradability	> 100 mg/l 47 mg/l lit (4259-15-8) 46 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinodon variegatus, Semi-static system, Fresh water, Experimental value, GLP) 46 mg/l Test organisms (species): lit (4259-15-8) Not readily biodegradable in water.
ErC50 algae NOEC (chronic) Bis(2-ethylhexyl) phosphorodithioate Zinc Sa LC50 - Fish [1] LC50 - Fish [2] 12.2. Persistence and degradability graphite (7782-42-5) Not rapidly degradable Bis(2-ethylhexyl) phosphorodithioate Zinc Sa Persistence and degradability 12.3. Bioaccumulative potential	> 100 mg/l 47 mg/l lit (4259-15-8) 46 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinodon variegatus, Semi-static system, Fresh water, Experimental value, GLP) 46 mg/l Test organisms (species): lit (4259-15-8) Not readily biodegradable in water.

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12.4. Mobility in soil

Bis(2-ethylhexyl) phosphorodithioate Zinc Salt (4259-15-8)	
Surface tension 63.7 mN/m (21 °C, 1.25 g/l, OECD 115: Surface Tension of Aqueous Solutions)	
cology - soil Low potential for adsorption in soil.	

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
Transport document description	'		'
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Bis(2-ethylhexyl) phosphorodithioate Zinc Salt	CAS-No. 4259-15-8	≤ 1.5%
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15.2. International regulations

CANADA

Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)

Listed on the Canadian DSL (Domestic Substances List)

graphite (7782-42-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

MARNING:

This product can expose you to Carbon black, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
graphite(7782-42-5)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
asphaltic bitumen, not cut back(8052-42-4)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
chalk(1317-65-3)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
asphalt, oxidized(64742-93-4)	U.S New Jersey - Right to Know Hazardous Substance List
molybdenium(IV) sulfide(1317-33-5)	U.S New York City - Right to Know Hazardous Substances List
soybean oil(8001-22-7)	U.S Pennsylvania - RTK (Right to Know) List
quartz, 1%≤conc respirable crystalline silica<10%(14808-60-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
cyclohexane(110-82-7)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
carbon black(1333-86-4)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Full text of H-phrases	
H318	Causes serious eye damage
H319	Causes serious eye irritation

Safety Data Sheet (SDS), USA

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.