

Revision date 19-Sep-2025

Revision Number 4

1. Identification**Product identifier****Product Name** 72733**Other means of identification****Product Code(s)** 613150**UN number or ID number** UN3077**Synonyms** None**Recommended use of the chemical and restrictions on use****Recommended use** Lubricant and sealant used for threaded connections**Restrictions on use** Do not use on oxygen lines or in oxygen enriched atmospheres.**Details of the supplier of the safety data sheet****Manufacturer Address**Bestolife Corporation
2126 Vanco Drive
Irving TX 75061
855-243-9164/972-865-8961
Telefax 214-631-3047**Emergency telephone number****Emergency Telephone** CHEMTREC U.S.: 800-424-9300, International +1 703-527-3887 (24-hours/7 days)**2. Hazard(s) identification****Classification**

Acute toxicity - Oral	Category 4
Carcinogenicity	Category 1B
Reproductive toxicity	Category 1A
Effects on or via lactation	Yes
Specific target organ toxicity (repeated exposure)	Category 1

Appearance Viscous semi-solid
Label elements**Physical state** Solid**Odor** Petroleum**Danger****Hazard statements**Harmful if swallowed
May cause cancer
May damage fertility or the unborn child

May cause harm to breast-fed children
 Effects on or via lactation
 Very toxic to aquatic life with long lasting effects
 Causes damage to organs through prolonged or repeated exposure



Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Wear protective gloves, protective clothing, eye protection and face protection
 Do not breathe dusts or mists
 Avoid contact during pregnancy and while nursing
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
 Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

Other information

May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects.

Unknown acute toxicity

56.17117 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	>= 30 - < 50	-	-
Lead	7439-92-1	>= 30 - < 50	-	-
Graphite	7782-42-5	>= 10 - < 20	-	-
Zinc	7440-66-6	>= 10 - < 20	-	-
Copper metal powder	7440-50-8	>= 1 - < 5	-	-
Talc	14807-96-6	>= 1 - < 5	-	-
Quartz	14808-60-7	>= 1 - < 5	-	-
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	>= 1 - < 5	-	-
Barium bis(dinonylnaphthalenesulphonate)	25619-56-1	>= 1 - < 5	-	-

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

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
-----------------	---------------------------

Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
---------------------------	------------------------

5. Fire-fighting measures

Suitable Extinguishing Media	Dry chemical, CO2, alcohol-resistant foam or water spray.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Hazardous combustion products	Carbon oxides. Lead compounds. Metal oxides. Oxides of sulfur.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
Other information	Refer to protective measures listed in Sections 7 and 8.

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	Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust.

7. Handling and storage**Precautions for safe handling**

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse.
--------------------------------	--

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store in accordance with the particular national regulations.
---------------------------	---

8. Exposure controls/personal protection**Control Parameters****Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	TWA: 5 mg/m ³ inhalable particulate matter excluding metal working fluids, highly & severely refined Exposure by all routes should be carefully controlled to levels as low as possible	TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 2500 mg/m ³ TWA: 5 mg/m ³ STEL: 10 mg/m ³
Lead 7439-92-1	TWA: 0.05 mg/m ³	TWA: 50 µg/m ³	IDLH: 100 mg/m ³ TWA: 0.050 mg/m ³
Graphite 7782-42-5	TWA: 2 mg/m ³ respirable particulate matter all forms except graphite fibers	TWA: 15 mg/m ³ total dust synthetic TWA: 5 mg/m ³ respirable fraction synthetic TWA: 15 mppcf respirable dust natural (vacated) TWA: 2.5 mg/m ³ respirable dust natural (vacated) TWA: 10 mg/m ³ total dust synthetic (vacated) TWA: 5 mg/m ³ respirable fraction synthetic TWA: 15 mppcf natural	IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³ natural respirable dust
Copper metal powder 7440-50-8	TWA: 0.2 mg/m ³ fume	TWA: 0.1 mg/m ³ fume TWA: 1 mg/m ³ dust and mist (vacated) TWA: 0.1 mg/m ³ Cu dust, fume, mist	IDLH: 100 mg/m ³ dust, fume and mist TWA: 1 mg/m ³ dust and mist TWA: 0.1 mg/m ³ fume
Talc	TWA: 2 mg/m ³ respirable	TWA: 20 mppcf if 1% Quartz	IDLH: 1000 mg/m ³

14807-96-6	particulate matter particulate matter containing no Asbestos and <1% Crystalline silica	or more, use Quartz limit (vacated) TWA: 2 mg/m ³ respirable dust <1% Crystalline silica, containing no Asbestos TWA: 20 mppcf if 1% Quartz or more, use Quartz limit	TWA: 2 mg/m ³ containing no Asbestos and <1% Quartz respirable dust	
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable particulate matter	TWA: 50 µg/m ³ (vacated) TWA: 0.1 mg/m ³ respirable dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust	
Distillates (petroleum), hydrotreated light naphthenic 64742-53-6	Exposure by all routes should be carefully controlled to levels as low as possible	-	-	
Barium bis(dinonylnaphthalenesulphonate) 25619-56-1	TWA: 0.5 mg/m ³ Ba	TWA: 0.5 mg/m ³ Ba regulated under CAS 7440-39-3 (vacated) TWA: 0.5 mg/m ³ Ba	IDLH: 50 mg/m ³ Ba TWA: 0.5 mg/m ³ except Barium sulfate Ba	
Chemical name	Alberta	British Columbia	Ontario	Quebec
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 5 mg/m ³ TWA:	TWA: 5 mg/m ³ STEL: 10 mg/m ³
Lead 7439-92-1	TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³ Adverse reproductive effect	TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³
Graphite 7782-42-5	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³
Copper metal powder 7440-50-8	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³ TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³
Talc 14807-96-6	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³
Quartz 14808-60-7	TWA: 0.025 mg/m ³	TWA: 0.025 mg/m ³	TWA: 0.10 mg/m ³	TWA: 0.1 mg/m ³
Barium bis(dinonylnaphthalenesulphonate) 25619-56-1	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³

Other information

These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard

Biological occupational exposure limits

Chemical name	ACGIH
Lead 7439-92-1	200 µg/L - blood (Lead) - not critical

Appropriate engineering controls**Engineering controls**

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection PPE16 - Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training; Nitrile or neoprene preferred.

REMARKS: Inspect gloves before use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier information). Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Remove gloves with care avoiding skin contamination. Wash hands before breaks and at the end of workday. Wear suitable gloves.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
n/a	Wear protective nitrile rubber gloves	0.50 - 0.70 mm	> 60 minutes
n/a	Wear protective Neoprene™ gloves	0.50 - 0.70 mm	> 60 minutes

Skin and body protection Wear suitable protective clothing.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use appropriate respiratory protection.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Viscous semi-solid
Physical state Solid
Color black, copper
Odor (includes odor threshold) Petroleum

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Boiling point (or initial boiling point or boiling range)	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	>= 162.78 °C / 325.004 °F	Method ASTM D 92, Cleveland open cup Distillates (petroleum), hydrotreated heavy naphthenic
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
SADT (°C)	No data available	None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity		None known
Solubility		None known
Water solubility	Negligible	None known

Partition coefficient n-octanol/water (log value)		None known
Vapor pressure (includes evaporation rate)		None known
Evaporation rate		None known
Density and/or relative density	1.9	None known
Bulk density		
Liquid Density		
Relative vapor density	No data available	None known
Particle characteristics		No information available
Particle Size		
Particle Size Distribution		

Other information**10. Stability and reactivity**

Reactivity	Not classified as a reactivity hazard.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Can react with strong oxidizing agents.
Conditions to avoid	None known based on information supplied.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	None known based on information supplied.

11. Toxicological informationInformation on likely routes of exposure**Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May be harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	No information available.
Acute toxicity	Harmful if swallowed.

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral)	1,646.80 mg/kg
ATEmix (dermal)	3,893.80 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapor)	99,999.00 mg/l
ATEmix (inhalation-dust/mist)	70.60 mg/l

Unknown acute toxicity

56.17117 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Distillates (petroleum), hydrotreated heavy naphthenic CAS: 64742-52-5 ID: C64742525 >= 30 - < 50 %	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Graphite CAS: 7782-42-5 ID: C7782425 >= 10 - < 20 %	-	-	> 2000 mg/m ³ (Rat) 4 h
Zinc CAS: 7440-66-6 ID: C7440666 >= 10 - < 20 %	= 630 mg/kg (Rat)	-	-
Copper metal powder CAS: 7440-50-8 ID: C7440508 >= 1 - < 5 %	-	-	> 5.11 mg/L (Rat) 4 h
Distillates (petroleum), hydrotreated light naphthenic CAS: 64742-53-6 ID: C64742536 >= 1 - < 5 %	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2180 mg/m ³ (Rat) 4 h
Barium bis(dinonylnaphthalenesulphonate) CAS: 25619-56-1 ID: C25619561 >= 1 - < 5 %	= 1750 mg/kg (Rat)	> 1000 mg/kg (Rabbit)	> 21 mg/L (Rat) 1 h

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Distillates (petroleum), hydrotreated heavy naphthenic CAS: 64742-52-5 ID: C64742525 >= 30 - < 50 %	A2	Group 1	Known	X
Lead CAS: 7439-92-1 ID: C7439921 >= 30 - < 50 %	A3	Group 2A	Reasonably Anticipated	X
Talc CAS: 14807-96-6 ID: C14807966 >= 1 - < 5 %	-	Group 3	-	X
Quartz	A2	Group 1	Known	X

CAS: 14808-60-7 ID: C14808607 >= 1 - < 5 %				
Distillates (petroleum), hydrotreated light naphthenic CAS: 64742-53-6 ID: C64742536 >= 1 - < 5 %	A2	Group 1	Known	X

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child. May cause harm to breast-fed children.

STOT - single exposure No information available.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
Lead 7439-92-1	-	LC50: =0.44mg/L (96h, Cyprinus carpio) LC50: =1.17mg/L (96h, Oncorhynchus mykiss) LC50: =1.32mg/L (96h, Oncorhynchus mykiss)	-	EC50: =600µg/L (48h, water flea)
Graphite 7782-42-5	-	LC50: >100mg/L (96h, Danio rerio)	-	-
Zinc 7440-66-6	EC50: 0.11 - 0.271mg/L (96h, Pseudokirchneriella subcapitata) EC50: 0.09 - 0.125mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 2.16 - 3.05mg/L (96h, Pimephales promelas) LC50: 0.211 - 0.269mg/L (96h, Pimephales promelas) LC50: =2.66mg/L (96h, Pimephales promelas) LC50: =30mg/L (96h, Cyprinus carpio) LC50: =0.45mg/L (96h, Cyprinus carpio) LC50: =7.8mg/L (96h, Cyprinus carpio) LC50: =3.5mg/L (96h, Lepomis macrochirus) LC50: =0.24mg/L (96h, Oncorhynchus mykiss) LC50: =0.59mg/L (96h, Oncorhynchus mykiss) LC50: =0.41mg/L (96h,	-	EC50: 0.139 - 0.908mg/L (48h, Daphnia magna)

Copper metal powder 7440-50-8	EC50: 0.0426 - 0.0535mg/L (72h, Pseudokirchneriella subcapitata) EC50: 0.031 - 0.054mg/L (96h, Pseudokirchneriella subcapitata)	Oncorhynchus mykiss) LC50: 0.0068 - 0.0156mg/L (96h, Pimephales promelas) LC50: <0.3mg/L (96h, Pimephales promelas) LC50: =0.2mg/L (96h, Pimephales promelas) LC50: =0.052mg/L (96h, Oncorhynchus mykiss) LC50: =1.25mg/L (96h, Lepomis macrochirus) LC50: =0.3mg/L (96h, Cyprinus carpio) LC50: =0.8mg/L (96h, Cyprinus carpio) LC50: =0.112mg/L (96h, Poecilia reticulata)	-	EC50: =0.03mg/L (48h, Daphnia magna)
Talc 14807-96-6	-	LC50: >100g/L (96h, Brachydanio rerio)	-	-
Distillates (petroleum), hydrotreated light naphthenic 64742-53-6	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)

Persistence and degradability

Bioaccumulative potential There is no data for this product.

Mobility in soil

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

14. Transport information

Note: DG for domestic (ground) transport applies to containers over 119 gallons or 450 litres.

IMDG Clause 2.10.2.7 / IATA Special Provision A197: Marine pollutants or dangerous goods packaged in single or combination packages containing a net quantity per single or inner package of 5 L or less for liquids or 5 kg for solids are not subject to any other transport regulations, provided the packaging meets general provisions.

DOT

UN number or ID number	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Transport hazard class(es)	9
Packing group	III
Reportable quantity (lbs)	Lead: RQ (lb)= 10.00, Zinc: RQ (lb)= 1000.00
Reportable quantity (lbs) (calculated)	Lead: RQ (lb)= 33.00, Zinc: RQ (lb)= 8202.00
Reportable quantity (kg)	(Lead: RQ (kg)= 4.54, Zinc: RQ (kg)= 454.00)
Reportable quantity (kg) (calculated)	Lead: RQ (kg)= 14.88, Zinc: RQ (kg)= 3723.72
DOT Marine Pollutant	M
Marine pollutant	Lead, Copper metal powder
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Lead, Copper metal powder), 9, III
Special Provisions	8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33
Emergency Response Guide Number	171

TDG

UN number or ID number	UN3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Transport hazard class(es)	9
Packing group	III
Special Provisions	16, 99
Marine pollutant name	Lead.
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Lead, Copper metal powder), 9, III

MEX

UN number or ID number	UN3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Transport hazard class(es)	9
Packing group	III
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Lead, Copper metal powder), 9, III
Special Provisions	274, 331, 335, 375

ICAO (air)

UN number or ID number	UN3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Transport hazard class(es)	9
Packing group	III
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Lead, Copper metal powder), 9, III
Special Provisions	A97, A158, A179, A197, A215

IATA

UN number or ID number	UN3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Technical Name	Lead, Copper metal powder
Transport hazard class(es)	9
Packing group	III
Environmental hazards	Yes
Special Provisions	A97, A158, A179, A197, A215
ERG Code	9L
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Lead, Copper metal powder), 9, III

IMDG

UN number or ID number	UN3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Technical Name	Lead, Copper metal powder

Transport hazard class(es)	9
Packing group	III
Marine pollutant indicator	M
Marine pollutant name	Lead, Copper metal powder
Special Provisions	274, 335, 375, 966, 967, 969
EmS-No.	F-A S-F
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Lead, Copper metal powder), 9, III, Marine pollutant

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Present	Active
Lead	7439-92-1	Present	Active
Graphite	7782-42-5	Present	Active
Zinc	7440-66-6	Present	Active
Copper metal powder	7440-50-8	Present	Active
Talc	14807-96-6	Present	Active
Quartz	14808-60-7	Present	Active
12-Hydroxy lithium stearate	7620-77-1	Present	Active
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Present	Active
Barium bis(dinonylnaphthalenesulphonate)	25619-56-1	Present	Active
Zinc oxide	1314-13-2	Present	Active
Calcium bis(dinonylnaphthalenesulphonate)	1474044-79-5	-	Unknown *
Ethenylbenzene polymer with 2-methyl-1,3-butadiene, hydrogenated	68648-89-5	Present	Active
Calcium petroleum sulfonates	61789-86-4	Present	Active
Calcium oxide	1305-78-8	Present	Active
Iron	7439-89-6	Present	Active
Stearic acid	57-11-4	Present	Active
Cadmium	7440-43-9	Present	Active
Magnesium oxide	1309-48-4	Present	Active

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL

All components of this product are on the Canadian DSL.

EINECS/ELINCS	All components are listed or exempted.
ENCS	All components are listed or exempted.
IECSC	All components are listed or exempted.
KECL	All components are listed or exempted.
PICCS	All components are listed or exempted.
AIIC	All components are listed on AICIS, or are exempt.
NZIoC	All components are listed or exempted.
TCSI	All components are listed or exempted.

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 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

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

US 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	SARA 313 - Threshold Values %
Lead CAS: 7439-92-1 ID: C7439921 >= 30 - < 50 %	0.1
Zinc CAS: 7440-66-6 ID: C7440666 >= 10 - < 20 %	1.0
Copper metal powder CAS: 7440-50-8 ID: C7440508 >= 1 - < 5 %	1.0
Barium bis(dinonylnaphthalenesulphonate) CAS: 25619-56-1 ID: C25619561 >= 1 - < 5 %	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (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).

CAA (Clean Air Act)

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
Lead CAS: 7439-92-1 ID: C7439921 >= 30 - < 50 %	Carcinogen Developmental Female Reproductive Male Reproductive
Quartz CAS: 14808-60-7 ID: C14808607 >= 1 - < 5 %	Carcinogen
Cadmium CAS: 7440-43-9 ID: C7440439 >= 0.01 - < 0.1 %	Carcinogen Developmental Male Reproductive

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Distillates (petroleum), hydrotreated heavy naphthenic CAS: 64742-52-5 ID: C64742525 >= 30 - < 50 %	X	X	X
Lead CAS: 7439-92-1 ID: C7439921 >= 30 - < 50 %	X	X	X
Graphite CAS: 7782-42-5 ID: C7782425 >= 10 - < 20 %	X	X	X
Zinc CAS: 7440-66-6 ID: C7440666 >= 10 - < 20 %	X	X	X
Copper metal powder CAS: 7440-50-8 ID: C7440508 >= 1 - < 5 %	X	X	X
Talc CAS: 14807-96-6 ID: C14807966 >= 1 - < 5 %	X	X	X
Quartz CAS: 14808-60-7 ID: C14808607 >= 1 - < 5 %	X	X	X
Distillates (petroleum), hydrotreated light naphthenic CAS: 64742-53-6 ID: C64742536 >= 1 - < 5 %	-	X	-
Barium bis(dinonylnaphthalenesulphonate) CAS: 25619-56-1 ID: C25619561 >= 1 - < 5 %	X	-	X
Zinc oxide CAS: 1314-13-2 ID: C1314132	X	X	X

>= 0.1 - < 1 %			
Calcium oxide CAS: 1305-78-8 ID: C1305788 >= 0.1 - < 1 %	X	X	X
Cadmium CAS: 7440-43-9 ID: C7440439 >= 0.01 - < 0.1 %	X	X	X
Magnesium oxide CAS: 1309-48-4 ID: C1309484 >= 0.001 - < 0.01 %	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA Health hazards 1 Flammability 1 Instability 0 Special hazards -
HMIS Health hazards 4 * Flammability 1 Physical hazards 0 Personal protection X
 Chronic Hazard Star Legend * = Chronic Health Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet**Legend Section 8: Exposure controls/personal protection**

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
 Ceiling Maximum limit value Sk* Skin designation

Key literature references and sources for data used to compile the SDS

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 U.S. Environmental Protection Agency
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan National Institute of Technology and Evaluation (NITE)
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 U.S. National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
 International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
 International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
 United Nations World Health Organization (WHO)

Revision date 19-Sep-2025

Revision Note**Disclaimer**

The information provided in this 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