

Revision date 07-Aug-2024

Revision Number 1

1. Identification

Product identifier

Product Name ZN-18

Other means of identification

Product Code(s) 620015

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
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Appearance Viscous semi-solid
Label elements

Physical state Solid

Odor Petroleum

Warning

Hazard statements
Harmful if swallowed

**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

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 to an approved waste disposal plant

Other information

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

Unknown acute toxicity

41.83407 % 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	-	-
Talc	14807-96-6	>= 20 - < 30	-	-
Zinc	7440-66-6	>= 10 - < 20	-	-
Dolomite	16389-88-1	>= 5 - < 10	-	-
Graphite	7782-42-5	>= 1 - < 5	-	-
12-Hydroxy lithium stearate	7620-77-1	>= 1 - < 5	-	-
Calcium oxide	1305-78-8	>= 1 - < 5	-	-
Calcium bis(dinonylnaphthalenesulphonate)	1474044-79-5	>= 1 - < 5	-	-
Quartz	14808-60-7	>= 1 - < 5	-	-
Zinc oxide	1314-13-2	>= 1 - < 5	-	-
Calcium petroleum sulfonates	61789-86-4	>= 0 - < 1.0	-	-
Antimony, dialkyl dithiocarbamate	15890-25-2	>= 0 - < 1.0	-	-

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

Additional information

NOTE: As per Note L, the carcinogen classification does NOT apply to this preparation because the producer of "Petroleum distillates, hydrotreated heavy naphthenic" declares that it contains less than 3% DMSO extractable material by IP-346

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

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.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. Fire-fighting measures

Suitable Extinguishing Media	Dry chemical, CO2, water spray or alcohol-resistant foam.
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.
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. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. 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	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
Talc 14807-96-6	TWA: 2 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	TWA: 20 mppcf if 1% Quartz 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	IDLH: 1000 mg/m ³ TWA: 2 mg/m ³ containing no Asbestos and <1% Quartz respirable dust
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
Calcium oxide 1305-78-8	TWA: 2 mg/m ³	TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³ not in effect as a result of reconsideration	IDLH: 25 mg/m ³ TWA: 2 mg/m ³
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	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust

		: (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m ³ TWA respirable fraction		
Zinc oxide 1314-13-2	STEL: 10 mg/m ³ respirable particulate matter TWA: 2 mg/m ³ respirable particulate matter	TWA: 5 mg/m ³ fume TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 5 mg/m ³ fume (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction (vacated) STEL: 10 mg/m ³ fume	IDLH: 500 mg/m ³ Ceiling: 15 mg/m ³ dust TWA: 5 mg/m ³ dust and fume STEL: 10 mg/m ³ fume	
Antimony, dialkyl dithiocarbamate 15890-25-2	TWA: 0.5 mg/m ³ Sb	TWA: 0.5 mg/m ³ Sb (vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 50 mg/m ³ Sb TWA: 0.5 mg/m ³ Sb	
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
Talc 14807-96-6	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 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
Calcium oxide 1305-78-8	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
Zinc oxide 1314-13-2	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 2 mg/m ³ STEL: 10 mg/m ³
Antimony, dialkyl dithiocarbamate 15890-25-2	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**Appropriate engineering controls****Engineering controls**

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment**Eye/face protection**

No special protective equipment required.

Hand protection

Wear suitable gloves. PPE16 - Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training.

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. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse. Wear suitable gloves and eye/face protection.
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9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Solid
Appearance	Viscous semi-solid
Color	gray
Odor	Petroleum
Odor threshold	

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flash point	>= 200 °C / 392 °F	Method ASTM D 92, Cleveland open cup Distillates (petroleum), hydrotreated heavy naphthenic
Evaporation rate		None known
Flammability		None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure		None known
Relative vapor density	No data available	None known
Relative density	1.5	None known
Water solubility	Negligible	None known
Solubility(ies)		None known
Partition coefficient		None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity		None known
Dynamic viscosity		None known
<u>Other information</u>		
Explosive properties	No information available	
Oxidizing properties	No information available	
VOC content	No information available	

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 information

Information 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.
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Acute toxicity

Numerical measures of toxicity

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

ATEmix (oral)	1,398.40 mg/kg
ATEmix (dermal)	3,769.00 mg/kg

Unknown acute toxicity

41.83407 % 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 64742-52-5	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Zinc 7440-66-6	= 630 mg/kg (Rat)	-	-
Graphite 7782-42-5	-	-	> 2000 mg/m ³ (Rat) 4 h
12-Hydroxy lithium stearate 7620-77-1	-	> 3000 mg/kg (Rabbit)	-
Calcium oxide 1305-78-8	= 500 mg/kg (Rat)	-	> 6.04 mg/L (Rat) 4 h
Zinc oxide 1314-13-2	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5700 mg/m ³ (Rat) 4 h
Calcium petroleum sulfonates 61789-86-4	> 20 g/kg (Rat)	> 5000 mg/kg (Rabbit)	> 1.9 mg/L (Rat) 4 h
Antimony, dialkyl dithiocarbamate 15890-25-2	> 16400 mg/kg (Rat)	> 16000 mg/kg (Rabbit)	-

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

NOTE: As per Note L, the carcinogen classification does NOT apply to this preparation because the producer of "Petroleum distillates, hydrotreated heavy naphthenic" declares that it contains less than 3% DMSO extractable material by IP-346

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

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 64742-52-5	A2	Group 1	Known	X
Talc 14807-96-6	-	Group 3	-	X
Quartz 14808-60-7	A2	Group 1	Known	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target organ effects Respiratory system, Eyes, Skin, Central Vascular System (CVS), Lungs.

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)
Talc 14807-96-6	-	LC50: >100g/L (96h, Brachydanio rerio)	-	-
Zinc 7440-66-6	EC50: 0.11 - 0.271mg/L (96h, Pseudokirchneriella)	LC50: 2.16 - 3.05mg/L (96h, Pimephales)	-	EC50: 0.139 - 0.908mg/L (48h, Daphnia magna)

	subcapitata) EC50: 0.09 - 0.125mg/L (72h, Pseudokirchneriella subcapitata)	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, Oncorhynchus mykiss)		
Graphite 7782-42-5	-	LC50: >100mg/L (96h, Danio rerio)	-	-
Calcium oxide 1305-78-8	-	LC50: =1070mg/L (96h, Cyprinus carpio)	-	-
Zinc oxide 1314-13-2	-	LC50: =1.55mg/L (96h, Danio rerio)	-	-
Calcium petroleum sulfonates 61789-86-4	-	LC50: 5.7 - 9.7mg/L (96h, Pimephales promelas) LC50: 1.0 - 10.0mg/L (96h, Pimephales promelas)	-	EC50: 6.2 - 12mg/L (48h, Daphnia magna)

Persistence and degradability**Bioaccumulation**

There is no data for this product.

Chemical name	Partition coefficient
Calcium bis(dinonylnaphthalenesulphonate) 1474044-79-5	6.6

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**Remarks**

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, Zinc: RQ (lb)= 1000.00
 Reportable quantity lbs. (calculated) Lead: RQ (lb)= 29138.00, Zinc: RQ (lb)= 5827.00
 Reportable Quantity (RQ) (Lead: RQ (kg)= 4.54, Zinc: RQ (kg)= 454.00)
 Reportable quantity kg (calculated) Lead: RQ (kg)= 13228.00, Zinc: RQ (kg)= 2645.00
 DOT Marine Pollutant I
 Marine pollutant Zinc, Zinc oxide
 Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Zinc, Zinc oxide), 9, III, Marine pollutant
 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 Zinc, Zinc oxide.
 Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Zinc, Zinc oxide), 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. (Zinc, Zinc oxide), 9, III
 Special Provisions 274, 331, 335

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. (Zinc, Zinc oxide), 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.
 Transport hazard class(es) 9
 Packing group III
 ERG Code 9L
 Special Provisions A97, A158, A179, A197, A215
 Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Zinc, Zinc oxide), 9, III

IMDG

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
EmS-No	F-A, S-F
Special Provisions	274, 335, 966, 967, 969
Marine pollutant	P
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Zinc, Zinc oxide), 9, III, Marine pollutant

RID

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
Classification code	M7
Special Provisions	274, 335, 375, 601
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Zinc, Zinc oxide), 9, III

ADR

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
Classification code	M7
Tunnel restriction code	(-)
Special Provisions	274, 335, 601, 375
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Zinc, Zinc oxide), 9, III, (-)

ADN

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
Classification code	M7
Special Provisions	274, 335, 375, 601
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Zinc, Zinc oxide), 9, III
Equipment Requirements	A, PP

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
Talc	14807-96-6	Present	Active
Zinc	7440-66-6	Present	Active
Dolomite	16389-88-1	Present	Active
Graphite	7782-42-5	Present	Active
12-Hydroxy lithium stearate	7620-77-1	Present	Active

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
Calcium oxide	1305-78-8	Present	Active
Calcium bis(dinonylnaphthalenesulphonate)	1474044-79-5	-	Unknown *
Quartz	14808-60-7	Present	Active
Zinc oxide	1314-13-2	Present	Active
Ethenylbenzene polymer with 2-methyl-1,3-butadiene, hydrogenated	68648-89-5	Present	Active
Calcium petroleum sulfonates	61789-86-4	Present	Active
Antimony, dialkyl dithiocarbamate	15890-25-2	Present	Active
Lubricating oils (petroleum), hydrotreated spent	64742-58-1	Present	Active
Magnesium oxide	1309-48-4	Present	Active
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	Present	Active
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Present	Active
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Present	Active
Polyisobutylene	9003-27-4	Present	Active
Lead	7439-92-1	Present	Active
Iron	7439-89-6	Present	Active
Cadmium	7440-43-9	Present	Active
Polybutene	9003-29-6	Present	Active
Copper metal powder	7440-50-8	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

Contact supplier for inventory compliance status.

ENCS

Contact supplier for inventory compliance status.

IECSC

Contact supplier for inventory compliance status.

KECI

Contact supplier for inventory compliance status.

PICCS

Contact supplier for inventory compliance status.

AIIC

All components are listed on AICIS, or are exempt.

NZIoC

Contact supplier for inventory compliance status.

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

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 %
Zinc - 7440-66-6	1.0
Zinc oxide - 1314-13-2	1.0
Antimony, dialkyl dithiocarbamate - 15890-25-2	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).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc 7440-66-6	-	X	X	-
Zinc oxide 1314-13-2	-	X	-	-
Antimony, dialkyl dithiocarbamate 15890-25-2	-	X	-	-

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).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Zinc 7440-66-6	1000 lb	-	RQ 454 kg final RQ RQ 1000 lb final RQ

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
Quartz - 14808-60-7	Carcinogen
Lead - 7439-92-1	Carcinogen Developmental Female Reproductive Male Reproductive
Cadmium - 7440-43-9	Carcinogen Developmental Male Reproductive

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	X	X	X
Talc 14807-96-6	X	X	X
Zinc 7440-66-6	X	X	X
Graphite 7782-42-5	X	X	X
Calcium oxide 1305-78-8	X	X	X
Quartz 14808-60-7	X	X	X
Zinc oxide 1314-13-2	X	X	X
Antimony, dialkyl dithiocarbamate 15890-25-2	X	-	X
Magnesium oxide 1309-48-4	X	X	X
Distillates (petroleum),	-	X	-

solvent-refined light paraffinic 64741-89-5			
Distillates (petroleum), solvent-dewaxed heavy paraffinic 64742-65-0	X	X	X
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7	X	X	X
Lead 7439-92-1	X	X	X
Cadmium 7440-43-9	X	X	X
Copper metal powder 7440-50-8	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 1*	Flammability 1	Physical hazards 0	Personal protection X

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

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (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)

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)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 07-Aug-2024

Revision Note**Disclaimer**

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End of Safety Data Sheet