SAFETY DATA SHEET



ENGINE BREAK-IN OIL

Section 1. Identif	ication				
GHS product identifier	: ENGINE BREAK-IN OIL				
Product code	: 301439175115				
Other means of	: Not available.				
identification					
Product type	: Liquid.				
Relevant identified uses of	the substance or mixture and uses advised against				
Identified uses					
Consumer products: Lubrica	ting Oil				
Uses advised against	Reason				
None known.					
Supplier's details	: Calumet Branded Products, LLC 2780 Waterfront Pkwy E. Drive Suite 200 Indianapolis, IN 46214 USA Technical Services:317-328-5660				
Emergency telephone number	: 24 hr. CHEMTREC 1-800-424-9300 / International 1-703-527-3887				
Section 2. Hazard	Is identification				
OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.				
Classification of the substance or mixture	: AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3				
GHS label elements					
Signal word	: No signal word.				
Hazard statements	: Harmful to aquatic life with long lasting effects.				
Precautionary statements					
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.				
Prevention	: Avoid release to the environment.				
Response	: Not applicable.				
Storage	: Not applicable.				
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.				
Hazards not otherwise classified	: None known.				

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

- : Mixture
- : Not available.

Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated light	≥25 - ≤50	64742-47-8
Distillates (petroleum), hydrotreated heavy paraffinic	≥25 - ≤50	64742-54-7
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≤6.8	64742-65-0
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	≤1.8	84605-29-8
Phenol, dodecyl-, branched	≤0.1	121158-58-5

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

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Potential acute health effect	<u>ots</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	utoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Eye contact Inhalation Skin contact	 No specific data. No specific data. No specific data.
dication of immediate med	lical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

 Date of issue/Date of revision
 : 12/14/2022
 Date of previous issue
 : 08/16/2022
 Version
 : 7.01

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Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protect	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions		Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and materials for co	nt	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	1	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Av contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.	
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.	
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materia (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kep upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.	ls

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated light	ACGIH TLV (United States, 1/2022). [Kerosene] Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.
Distillates (petroleum), hydrotreated heavy paraffinic	 OSHA PEL (United States, 5/2018). [Oil mist, mineral] TWA: 5 mg/m³ 8 hours. ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). [OIL MIST MINERAL] TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OSHA PEL (United States, 5/2018). [Oil mist, mineral] TWA: 5 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). [OIL MIST MINERAL] TWA: 5 mg/m ³ 10 hours. Form: Mist STEL: 10 mg/m ³ 15 minutes. Form: Mist
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	None.
Phenol, dodecyl-, branched	None.

Biological exposure indices

None known.

Section 8. Exposure controls/personal protection

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.						
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ens they comply with the requirements of environmental protection legislation. In son cases, fume scrubbers, filters or engineering modifications to the process equipn will be necessary to reduce emissions to acceptable levels.						
Individual protection meas	<u>es</u>						
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safe showers are close to the workstation location.						
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unles the assessment indicates a higher degree of protection: safety glasses with side-shields.	ŝS					
Skin protection							
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should worn at all times when handling chemical products if a risk assessment indicates thi necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.	is is c ent					
Body protection	: Personal protective equipment for the body should be selected based on the task be performed and the risks involved and should be approved by a specialist before handling this product.	eing					
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by specialist before handling this product.						
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.						

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Purple. [Dark]
Odor	: Odorless.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Open cup: 215.56°C (420°F) [Cleveland]
Evaporation rate	: Not available.
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.

Section 9. Physical and chemical properties and safety characteristics

Vapor pressure	:		por Pressure at 20°C				Vapor pressure at 50°C				
	Ingr	edient name	mm H	lg	kPa	Metho	bd	mm Hg		kPa	Method
	benze	ene	75.01	-	10						
	oct-1	-ene	13.96	-	1.9						
	2-me	thylpropan-1-ol	<12	<	<1.6	DIN EN 13016-2	2				
		ates (petroleum), treated light	0.23 to 0.45		0.031 to 0.06						
		ates (petroleum), treated heavy finic	<0.08	<	<0.011	ASTM E	5191				
		ates (petroleum), nt-dewaxed heavy finic	<0.08	~	<0.011	ASTM C	5191				
	Distill solve paraf	ates (petroleum), nt-dewaxed light finic	<0.08	<	<0.011	ASTM E	5191				
		ates (petroleum), otreated light finic	<0.08		<0.011	ASTM E	5191				
	naph	thalene	0.054	C	0.0072	OECD 1	04				
		ent naphtha bleum), heavy arom.	0.02	().0027						
	mixeo (1,3-o	phorodithioic acid, d O,O-bis dimethylbutyl and r) esters, zinc salts	0.00005	52 0	0.0000069	EU A.4		0.0003	3	0.00004	EU A.4
Relative vapor density	: Not a	available.				<u>I</u>					
elative density	: 0.873	38									
olubility(ies)	: Med	lia		Res	sult						
	pold w				soluble soluble						
Solubility in water	: Not a	available.									
Partition coefficient: n-	: Not a	applicable.									
uto-ignition temperature	: Ingr	edient name			°C		°F		Me	ethod	
	Solve arom	ent naphtha (petroleu	um), heav	vy	220 to 25	50 4	128 to 4	82	AS	TM E 659	
	oct-1	-ene			230	2	146				
	Distill light	ates (petroleum), hy	drotreate	ed	>220	2	>428				
	hydro	gen sulphide			270	ţ	518		DIN	I 51794	
	Phen	ol, dodecyl-, branche	ed		379 to 38	89	714.2 to	732.2			
	2-me	thylpropan-1-ol			415		779				
	benze	ene			498	g	928.4				
	naph	thalene			526 to 58	87 9	978.8 to	1088.6	DIN	I 51794	
	diphe	nylamine			634		1173.2				
Decomposition temperature	-	Not available.							1		
/iscosity		Kinematic (40°C (104°F)): 69			8 mm²/s	(69.88	cSt)				
low time (ISO 2431)		available.					,				
Pour point	: -47°0	C (-52.6°F)									

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Section 9. Physical and chemical properties and safety characteristics

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
₱istillates (petroleum), hydrotreated light	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), hydrotreated heavy paraffinic	LC50 Inhalation Dusts and mists	Rat	5.7 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LC50 Inhalation Dusts and mists	Rat	>5.53 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	LD50 Dermal	Rabbit	>2000 mg/kg	-
,	LD50 Oral	Rat	3.2 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Irritant	Rat	-	-	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Section 11. Toxicological information

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
Distillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Potential acute health effects	2	
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	1	No known significant effects or critical hazards.
Symptoms related to the phy	sic	cal, chemical and toxicological characteristics
Eye contact	1	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Delayed and immediate effect	: <u>ts</u>	and also chronic effects from short and long term exposure
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.
Numerical measures of toxic	itv	

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
NGINE BREAK-IN OIL Distillates (petroleum), hydrotreated light Distillates (petroleum), hydrotreated heavy paraffinic Distillates (petroleum), solvent-dewaxed heavy paraffinic	229456.5 N/A N/A N/A	2709.3 2500 2500 2500	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A 5.7 N/A
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	3200	2500	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Sistillates (petroleum), hydrotreated light	Acute EC50 >1000 mg/l	Algae	72 hours
, ,	Acute LC50 >1000 mg/l Fresh water	Daphnia	48 hours
Distillates (petroleum), hydrotreated heavy paraffinic	Acute EC50 >100 mg/l	Daphnia	48 hours
	Acute IC50 >100 mg/l	Algae	72 hours
	Acute LC50 >100 mg/l	Fish	96 hours
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Acute EC50 >100 mg/l	Algae	72 hours
	Acute EC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
	Chronic NOEL >1 mg/l	Daphnia	21 days
Phosphorodithioic acid, mixed O,O-bis	Acute LC50 10 to 100 mg/l	Fish	96 hours
(1,3-dimethylbutyl and iso-Pr) esters, zinc salts			
	Acute NOEC 1.8 mg/l	Fish	4 days
	Chronic NOEC <1 mg/l	Daphnia	21 days
Phenol, dodecyl-, branched	EC50 0.037 mg/l	Daphnia	2 days
	LC50 40 mg/l	Fish	4 days
	NOEC 0.0037 mg/l	Daphnia	21 days

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Ďistillates (petroleum), hydrotreated light	OECD 301F Ready Biodegradability - Manometric	69 % - Readily - 28 days	-	-
Phosphorodithioic acid,	Respirometry Test	1.5 % - Not readily - 28 days		_
mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts		1.5 % - Not readily - 20 days		
	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	1.5 % - 28 days	-	-
Phenol, dodecyl-, branched	-	56 % - Not readily - 10 days	-	-
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Section 12. Ecological information

Section 12. LCOIDE	Section 12. Ecological information						
	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	25 % - 28 days		-	-		
Product/ingredient name	Aquatic half-life		Photolysis	;	Biodegradability		
♥istillates (petroleum), hydrotreated light Distillates (petroleum), hydrotreated heavy paraffinic Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	-		-		Readily Not readily Not readily		
Phenol, dodecyl-, branched	-		-		Not readily		

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Sistillates (petroleum), hydrotreated heavy paraffinic	>6	-	high
Distillates (petroleum), solvent-dewaxed heavy paraffinic	2 to 6	-	high
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	0.56	-	low
Phenol, dodecyl-, branched	6.1	1601	high

Mobility in soil

Soil/water partition : Not available. coefficient (K_{oc})

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.

Section 14. Transport information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

J-	y
U.S. Federal regulations	: TSCA 8(a) PAIR: diphenylamine; naphthalene
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	Clean Water Act (CWA) 307 : Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts
	Clean Water Act (CWA) 311: hydrogen sulphide
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
hydrogen sulphide	<0.001	Yes.	500	-	100	-

SARA 304 RQ

: 20120724.3 lbs / 9134808.9 kg [2761686 gal / 10454118.6 L]

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Classification
Distillates (petroleum), hydrotreated light	≥25 - ≤50	ASPIRATION HAZARD - Category 1
Phosphorodithioic acid, mixed O, O-bis(1,3-dimethylbutyl and iso- Pr) esters, zinc salts		SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	84605-29-8	≤1.8
Supplier notification	Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	84605-29-8	≤1.8

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Section 15. Regulatory information

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: The following components are listed: ZINC compounds
Pennsylvania	: The following components are listed: ZINC COMPOUNDS
<u>California Prop. 65</u>	
This product is not known to	contain California Prop 65 substances ≥1 ppm
International lists	
National inventory	
Australia	: 🕅 components are listed or exempted.
Canada	: All components are listed or exempted.
China	: Not determined.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: 🕅 components are active or exempted.
Viet Nam	: Not determined.

Section 16. Other information

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
	Calculation method Calculation method

<u>History</u>	
Date of issue/Date of revision	: 12/14/2022
Date of previous issue	: 08/16/2022
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Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
	as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations
Indicates information the	ast has abanged from proviously issued varian

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.