SAFETY DATA SHEET



XPR SAE 0W-30

Section 1. Identification

GHS product identifier : XPR SAE 0W-30 **Product code** : 301913175115 Other means of : Not available.

identification

None known.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Consumer products: Lubricating Oil Synthetic Industrial applications: Lubricating Oil Synthetic	
Uses advised against	Reason

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. Hazards 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 : Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.5%

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

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 : Not applicable. Response : Not applicable. **Storage** : Not applicable. **Disposal** : Not applicable. **Hazards not otherwise** : None known.

classified

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Section 3. Composition/information on ingredients

Substance/mixture Other means of identification : Mixture

Not available.

Ingredient name	%	CAS number
Ø ec-1-ene, trimers, hydrogenated	≥50 - ≤75	68037-01-4
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	≤5	72623-87-1
Dec-1-ene, dimers, hydrogenated	≤5	68649-11-6
Distillates (petroleum), hydrotreated middle	≤3	64742-46-7
Distillates (petroleum), hydrotreated heavy paraffinic	≤3	64742-54-7
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≤3	64742-65-0
Distillates (petroleum), solvent-dewaxed light paraffinic	≤3	64742-56-9
Paraffin oils (petroleum), catalytic dewaxed heavy	≤3	64742-70-7
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc s	salts ≤2.2	113706-15-3

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 : Ir

: 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 : Rem

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under

medical surveillance for 48 hours.

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. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact
 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.
 No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.

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Section 4. First aid measures

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

_ .

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.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

: Use an extinguishing agent suitable for the surrounding fire.

carbon dioxide carbon monoxide nitrogen oxides 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, protective 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).

Methods and materials for containment 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.

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Section 6. Accidental release measures

Large spill

: Stop leak if without risk. Move containers from spill area. 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. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : 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.

including any incompatibilities

Conditions for safe storage, : 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 materials (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 kept 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
D ec-1-ene, trimers, hydrogenated	None.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	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
Dec-1-ene, dimers, hydrogenated	None.
Distillates (petroleum), hydrotreated middle	ACGIH TLV (United States).
	As total hydrocarbon vapor: 200 mg/m³ 8
	hours.
	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
Distillator (natural come) by distinguished become manuficial	=
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/m³ 8 hours.
	ACGIH TLV (United States, 1/2022).

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Section 8. Exposure controls/personal protection

[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 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 OSHA PEL (United States, 5/2018). [Oil

TWA: 5 mg/m³ 8 hours.

mist, mineral]

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

None

Distillates (petroleum), solvent-dewaxed light paraffinic

Paraffin oils (petroleum), catalytic dewaxed heavy

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts

Biological exposure indices

None known.

Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

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 safety 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, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection

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Section 8. Exposure controls/personal protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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 a 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.

Appearance

Physical state : Liquid. Color Purple. Not available. Odor **Odor threshold** Not available. Ha Not available. **Melting point/freezing point** : Not available. Boiling point, initial boiling : Not available.

point, and boiling range Flash point

: Open cup: 215.56°C (420°F) [Cleveland]

Evaporation rate Not available. **Flammability** : Not available. Lower and upper explosion : Not available.

limit/flammability limit

Vapor pressure

	Vapor Pressure at 20°C		re at 20°C	Vapo	r pressu	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
<mark>yi</mark> nyl acetate	84.76	11.3				
benzene	75.01	10				
toluene	23.17	3.1				
ethylenediamine	10.5	1.4				
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	<0.08	<0.011	ASTM D 5191			
Distillates (petroleum), hydrotreated heavy paraffinic	<0.08	<0.011	ASTM D 5191			
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<0.08	<0.011	ASTM D 5191			
Distillates (petroleum), solvent-dewaxed light paraffinic	<0.08	<0.011	ASTM D 5191			
Paraffin oils (petroleum), catalytic dewaxed heavy	<0.08	<0.011	ASTM D 5191			
Distillates (petroleum),	<0.08	<0.011	ASTM D 5191			

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Section 9. Physical and chemical properties and safety characteristics

hydrotreated heavy naphthenic						
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based	<0.08	<0.011	ASTM D 5191			
Distillates (petroleum), hydrotreated light paraffinic	<0.08	<0.011	ASTM D 5191			
naphthalene	0.054	0.0072	OECD 104			
Solvent naphtha (petroleum), heavy arom.	0.02	0.0027				
Dec-1-ene, dimers, hydrogenated	0.014	0.0019	ASTM E 1194-87			
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	0.000052	0.0000069	EU A.4	0.0003	0.00004	EU A.4
Dec-1-ene, trimers, hydrogenated	0.000000002	0.00000000027	EU A.4			
Dec-1-ene, homopolymer, hydrogenated	0	0	ASTM E 1194-87			
Synthetic Polyol Ester	0	0				
4,4'-methylene bis (dibutyldithiocarbamate)	<0	<0				

Relative vapor density **Relative density** Solubility(ies)

: Not available.

: 0.8648

Media **Result** old water Not soluble hot water Not soluble

Solubility in water Partition coefficient: noctanol/water

Auto-ignition temperature

: Not available.

: Not applicable.

:	Ingredient name	°C	°F	Method
	Solvent naphtha (petroleum), heavy arom.	220 to 250	428 to 482	ASTM E 659
	Distillates (petroleum), hydrotreated middle	225	437	
	Dec-1-ene, dimers, hydrogenated	324	615.2	ASTM D 2158
	Dec-1-ene, homopolymer, hydrogenated	343 to 369	649.4 to 696.2	ASTM D 2159
	2-Butenedioic acid (E)-, di-C8-18-alkyl esters	380	716	
	vinyl acetate	402	755.6	
	ethylenediamine	405	761	DIN 51794
	toluene	480	896	
	benzene	498	928.4	
	naphthalene	526 to 587	978.8 to 1088.6	DIN 51794

Decomposition temperature: Not available.

Viscosity

: Kinematic (40°C (104°F)): 42.89 mm²/s (42.89 cSt)

Flow time (ISO 2431) : Not available. **Pour point** : -60°C (-76°F)

Particle characteristics

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Section 9. Physical and chemical properties and safety 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

oduct/ingredient name F	Result	Species	Dose	Exposure
c-1-ene, trimers, L drogenated	LD50 Oral	Rat	>2000 mg/kg	-
	LD50 Dermal	Rabbit	>2000 mg/kg	-
L	LD50 Oral	Rat	>5000 mg/kg	-
c-1-ene, dimers, drogenated	LC50 Inhalation Dusts and mists	Rat	1.17 mg/l	4 hours
L	LD50 Oral	Rat	>5000 mg/kg	-
stillates (petroleum), L drotreated middle	LD50 Dermal	Rabbit	>2000 mg/kg	-
L	LD50 Oral	Rat	>5000 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	5.7 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
L	LD50 Oral	Rat	>5000 mg/kg	-
vent-dewaxed heavy	LC50 Inhalation Dusts and mists	Rat	>5.53 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
L	LD50 Oral	Rat	>5000 mg/kg	-
vent-dewaxed light	LD50 Dermal	Rabbit	>5000 mg/kg	-
	D50 Dermal	Rat	>2000 ma/ka	_
				-
	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Dermal	Rabbit - Male, Female	>3160 mg/kg	-
L	LD50 Oral	Rat	2600 mg/kg	-
stillates (petroleum), drotreated heavy paraffinic Latillates (petroleum), lvent-dewaxed heavy raffinic Latillates (petroleum), lvent-dewaxed light raffinic	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral LD50 Dermal LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal	Rat Rabbit Rat Rabbit Rat Rabbit Rat Rabbit Rat Rat Rat Rat Rat Rat Rat Rat Rat Ra	5.7 mg/l >2000 mg/kg >5000 mg/kg >5.53 mg/l >2000 mg/kg >5000 mg/kg >5000 mg/kg >5000 mg/kg >5000 mg/kg >5000 mg/kg >3160 mg/kg	- 4 hours - - -

Irritation/Corrosion

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Product/ingredient name	Result	Species	Score	Exposure	Observation
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	Eyes - Severe irritant	Rabbit	-	504 hours	-
	Skin - Irritant	Guinea pig	-	4 hours	-

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	skin	Guinea pig	Not sensitizing

Mutagenicity

Not available.

Carcinogenicity

Not available.

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
Dec-1-ene, dimers, hydrogenated Distillates (petroleum), hydrotreated middle	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact
 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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Section 11. Toxicological information

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

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 toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
₹PR SAE 0W-30	4329.6	4238.8	N/A	N/A	10.4
Dec-1-ene, trimers, hydrogenated	2500	N/A	N/A	N/A	N/A
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	N/A	2500	N/A	N/A	N/A
Dec-1-ene, dimers, hydrogenated	N/A	N/A	N/A	N/A	1.17
Distillates (petroleum), hydrotreated middle	N/A	2500	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy paraffinic	N/A	2500	N/A	N/A	5.7
Distillates (petroleum), solvent-dewaxed heavy paraffinic	N/A	2500	N/A	N/A	N/A
Distillates (petroleum), solvent-dewaxed light paraffinic	N/A	2500	N/A	N/A	N/A
Paraffin oils (petroleum), catalytic dewaxed heavy	N/A	2500	N/A	N/A	N/A
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	2600	2500	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
☑ec-1-ene, trimers, hydrogenated	Acute NOEC 2 mg/l (similar material)	Micro-organism	28 days (similar material)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Acute EC50 >100 mg/l	Algae	72 hours
	Acute EC50 >100 mg/l	Crustaceans	48 hours
	Acute LC50 >100 mg/l	Fish	96 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
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Section 12. Ecological information

•			
	LC50 4.5 mg/l	Fish	96 hours
mixed O,O-bis(sec-Bu and			
isooctyl) esters, zinc salts			

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	OECD 301B Ready Biodegradability - CO ₂ Evolution Test OECD 301B Ready Biodegradability - CO ₂ Evolution Test	1.5 % - Not readily - 28 days 1.5 % - Not readily - 28 days	-	-
		·		

Aquatic half-life	Photolysis	Biodegradability
-	-	Not readily
-	-	Inherent
-	-	Not readily
-	-	Not readily
-	-	Not readily
	- -	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Dec-1-ene, trimers,	>6.5	-	high
hydrogenated	>6		high
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	20	-	high
Dec-1-ene, dimers, hydrogenated	>6.5	-	high
Distillates (petroleum),	>6	-	high
hydrotreated heavy paraffinic Distillates (petroleum),	2 to 6	-	high
solvent-dewaxed heavy paraffinic			

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

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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. 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	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.

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

U.S. Federal regulations

: TSCA 4(a) final test rules: 2-Butenedioic acid (E)-, di-C8-18-alkyl esters

TSCA 8(a) PAIR: 2-Butenedioic acid (E)-, di-C8-18-alkyl esters; naphthalene

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 307: Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts; Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts; toluene; benzene

Clean Water Act (CWA) 311: toluene; benzene; ethylenediamine

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)** : Listed

Clean Air Act Section 602 **Class I Substances**

: Not listed

Clean Air Act Section 602

: Not listed

Class II Substances

: Not listed

DEA List I Chemicals (Precursor Chemicals)

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)
ethylenediamine vinyl acetate	<0.1 <0.1	Yes. Yes.	10000 1000	1337.1 129	5000 5000	668.5 644.8

SARA 304 RQ : 64984013.9 lbs / 29502742.3 kg [9012257.1 gal / 34115104.4 L]

Section 15. Regulatory information

SARA 311/312

Classification : Not applicable. Composition/information on ingredients

Name	%	Classification
Dec-1-ene, trimers, hydrogenated	≥50 - ≤75	ASPIRATION HAZARD - Category 1
Dec-1-ene, dimers,	≤5	ACUTE TOXICITY (inhalation) - Category 4
hydrogenated		ASPIRATION HAZARD - Category 1
Distillates (petroleum),	≤3	FLAMMABLE LIQUIDS - Category 4
hydrotreated middle		ASPIRATION HAZARD - Category 1
Distillates (petroleum), solvent-	≤3	ASPIRATION HAZARD - Category 1
dewaxed light paraffinic		
Phosphorodithioic acid, mixed O,	≤2.2	SKIN IRRITATION - Category 2
O-bis(sec-Bu and isooctyl) esters, zinc salts		EYE IRRITATION - Category 2A

SARA 313

	Product name	CAS number	%
I OIIII IX IXODOLUIIG	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	113706-15-3	≤2.2
	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	113706-15-3	≤2.2

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

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

California Prop. 65

MARNING: This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Information provided is based on industrial use and may not be relevant to consumer applications.

Ingredient name	Concentration (%)	No significant risk level	Maximum acceptable dosage level
Voluene	0.0146	-	Yes.
Benzene	0.0146	Yes.	Yes.

International lists

National inventory

Australia : MI components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted.

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. Not determined. **Turkey**

United States : All components are active or exempted.

Viet Nam : Not determined.

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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
Not classified.	

History

Date of issue/Date of

revision

: 12/14/2022

Date of previous issue

: 06/16/2022

Version

8.01

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 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.

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