



SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	IDO Syn Blend 10W30
Other means of identification	Not available
Recommended use	Lubricant
Recommended restrictions	None known.
Manufacturer information	Irving Blending & Packaging PO Box 1169 Saint John, NB E2L 4E6 CA Phone: 1.800.574.5823 Emergency Phone: 1.506.648.3060
Supplier	See above.

2. Hazards Identification

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 2
	Reproductive toxicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards	Not classified	
Label elements		
Signal word	Danger	
Hazard statement	Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.	
Precautionary statement		
Prevention	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not eat, drink or smoke when using this product.	
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.	
Storage	Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known	
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based		72623-87-1	56

Chemical name	Common name and synonyms	CAS number	%
Gas Oils (petroleum), Vacuum, Hydrocracked, Hydroisomerized, Hydrogenated, C20-40, Branched And Cyclic		178603-65-1	24
Distillates (petroleum), solvent-dewaxed heavy paraffin		64742-65-0	7
Distillates (petroleum), hydrotreated heavy paraffinic		64742-54-7	5
Distillates (petroleum), hydrotreated light paraffinic		64742-55-8	3
Petroleum distillates, solvent dewaxed light paraffinic		64742-56-9	3
Phosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl And Iso-pr) Esters, Zinc Salts		84605-29-8	1.6
Phenol, Dodecyl-, Branched		121158-58-5	0.3

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Skin contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. Treat patient symptomatically.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
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Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Do not discharge into lakes, streams, ponds or public waters.

7. Handling and Storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid contact with eyes, skin and clothing. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Provide adequate ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	TWA	5 mg/m3	Inhalable fraction.
Gas Oils (petroleum), Vacuum, Hydrocracked, Hydroisomerized, Hydrogenated, C20-40, Branched And Cyclic (CAS 178603-65-1)	TWA	5 mg/m3	Inhalable fraction.
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based (CAS 72623-87-1)	TWA	5 mg/m3	Inhalable fraction.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	TWA	5 mg/m3	Inhalable fraction.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	10 mg/m3	Mist.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	PEL	5 mg/m3	Mist.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	PEL	5 mg/m3	Mist.
		2000 mg/m3 500 ppm	
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	PEL	5 mg/m3	Mist.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	TWA	5 mg/m3	Inhalable fraction.
Gas Oils (petroleum), Vacuum, Hydrocracked, Hydroisomerized, Hydrogenated, C20-40, Branched And Cyclic (CAS 178603-65-1)	TWA	5 mg/m3	Inhalable fraction.
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based (CAS 72623-87-1)	TWA	5 mg/m3	Inhalable fraction.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	TWA	5 mg/m3	Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines**Canada - Alberta OELs: Skin designation**

Benzene (CAS 71-43-2) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Benzene (CAS 71-43-2) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Benzene (CAS 71-43-2) Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

Benzene (CAS 71-43-2) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Benzene (CAS 71-43-2) Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Impervious gloves. Confirm with reputable supplier first.

Other As required by employer code. Use of an impervious apron is recommended.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Thermal hazards

Not applicable.

General hygiene considerations

Observe any medical surveillance requirements. When using do not eat or drink.

9. Physical and Chemical Properties

Appearance	Liquid
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Petroleum
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	Not available.
Partition coefficient (n-octanol/water)	Not available.
Flash point	390.2 °F (199.0 °C) Pinsky-Martens Closed Cup

Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	79.32 cSt @ 40°C
Other information	
Density	0.8674 @ 15°C
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of exposure	
Ingestion	May cause stomach distress, nausea or vomiting.
Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	5000 mg/kg

Components	Species	Test Results
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	2.2 mg/l/4h
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	>= 5000 mg/kg
<i>Inhalation</i>		
LC50	Rat	2.2 mg/l/4h
<i>Oral</i>		
LD50	Rat	>= 5000 mg/kg
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based (CAS 72623-87-1)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 5.2 mg/L, 4 hours, dust/mist
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Phenol, Dodecyl-, Branched (CAS 121158-58-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 15000 mg/kg
<i>Oral</i>		
LD50	Rat	2100 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Contains < 3% (w/w) DMSO-extract See below.	
ACGIH Carcinogens		
Benzene (CAS 71-43-2)	A1 Confirmed human carcinogen.	
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	A2 Suspected human carcinogen.	
	A4 Not classifiable as a human carcinogen.	

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	A2 Suspected human carcinogen.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	A4 Not classifiable as a human carcinogen. A2 Suspected human carcinogen.
Gas Oils (petroleum), Vacuum, Hydrocracked, Hydroisomerized, Hydrogenated, C20-40, Branched And Cyclic (CAS 178603-65-1)	A4 Not classifiable as a human carcinogen. A2 Suspected human carcinogen.
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based (CAS 72623-87-1)	A4 Not classifiable as a human carcinogen. A2 Suspected human carcinogen.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	A4 Not classifiable as a human carcinogen. A2 Suspected human carcinogen.

Canada - Alberta OELs: Carcinogen category

Benzene (CAS 71-43-2) Confirmed human carcinogen.

Canada - Manitoba OELs: carcinogenicity

BENZENE (CAS 71-43-2) Confirmed human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, POORLY AND MILDLY REFINED (CAS 178603-65-1) Suspected human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, POORLY AND MILDLY REFINED (CAS 64742-53-6) Suspected human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, POORLY AND MILDLY REFINED (CAS 64742-54-7) Suspected human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, POORLY AND MILDLY REFINED (CAS 64742-55-8) Suspected human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, POORLY AND MILDLY REFINED (CAS 64742-56-9) Suspected human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, POORLY AND MILDLY REFINED (CAS 64742-65-0) Suspected human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, POORLY AND MILDLY REFINED (CAS 72623-87-1) Not classifiable as a human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 178603-65-1) Not classifiable as a human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 64742-53-6) Not classifiable as a human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 64742-54-7) Not classifiable as a human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 64742-55-8) Not classifiable as a human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 64742-56-9) Not classifiable as a human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 64742-65-0) Not classifiable as a human carcinogen.
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 72623-87-1) Not classifiable as a human carcinogen.

Canada - Quebec OELs: Carcinogen category

Benzene (CAS 71-43-2) Detected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzene (CAS 71-43-2) Volume 29, Supplement 7, Volume 100F 1 Carcinogenic to humans.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Benzene (CAS 71-43-2)

US NTP Report on Carcinogens: Known carcinogen

Benzene (CAS 71-43-2) Known To Be Human Carcinogen.
 Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7) Known To Be Human Carcinogen.
 Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) Known To Be Human Carcinogen.
 Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) Known To Be Human Carcinogen.

Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	Known To Be Human Carcinogen.
Gas Oils (petroleum), Vacuum, Hydrocracked, Hydroisomerized, Hydrogenated, C20-40, Branched And Cyclic (CAS 178603-65-1)	Known To Be Human Carcinogen.
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based (CAS 72623-87-1)	Known To Be Human Carcinogen.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Benzene (CAS 71-43-2)	Cancer
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Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Teratogenicity	Not available.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components	Species	Test Results
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)		
Crustacea	EC50 Daphnia	1000 mg/L, 48 Hours
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)		
Crustacea	EC50 Daphnia	1000 mg/L, 48 Hours
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)		
Crustacea	EC50 Daphnia	1000 mg/L, 48 Hours
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based (CAS 72623-87-1)		
Crustacea	EC50 Daphnia	1000 mg/L, 48 Hours
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)		
Crustacea	EC50 Daphnia	1000 mg/L, 48 Hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Mobility in soil

Mobility in general No data available.

Not available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.**Canada CEPA Schedule I: Listed substance**Benzene (CAS 71-43-2) Listed.
Phosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl
And Iso-pr) Esters, Zinc Salts (CAS 84605-29-8) Listed.**Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number**

Benzene (CAS 71-43-2) 1 TONNES

Canada Priority Substances List (Second List): Listed substancePhosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl
And Iso-pr) Esters, Zinc Salts (CAS 84605-29-8) Listed.**Export Control List (CEPA 1999, Schedule 3)**

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Not applicable**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)Benzene (CAS 71-43-2) Listed.
Phosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl
And Iso-pr) Esters, Zinc Salts (CAS 84605-29-8) Listed.**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**Benzene (CAS 71-43-2) Cancer
Central nervous system
Blood
Aspiration
Skin
Eye
respiratory tract irritation
Flammability**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories** Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No**SARA 302 Extremely hazardous substance** No**SARA 311/312 Hazardous chemical** No**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Phosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl And Iso-pr) Esters, Zinc Salts	84605-29-8	1.6

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Benzene (CAS 71-43-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations**US - California Hazardous Substances (Director's): Listed substance**Benzene (CAS 71-43-2) Listed.
Distillates (petroleum), hydrotreated light naphthenic
(CAS 64742-53-6) Listed.

Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) Listed.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0) Listed.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9) Listed.
Phosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl And Iso-pr) Esters, Zinc Salts (CAS 84605-29-8) Listed.

US - Illinois Chemical Safety Act: Listed substance

Benzene (CAS 71-43-2)
Phosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl And Iso-pr) Esters, Zinc Salts (CAS 84605-29-8)

US - Louisiana Spill Reporting: Listed substance

Benzene (CAS 71-43-2) Listed.
Phosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl And Iso-pr) Esters, Zinc Salts (CAS 84605-29-8) Listed.

US - Michigan Critical Materials Register: Parameter number

Benzene (CAS 71-43-2) BENZENE
Phosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl And Iso-pr) Esters, Zinc Salts (CAS 84605-29-8) ZINC

US - Minnesota Haz Subs: Listed substance

Benzene (CAS 71-43-2) Listed.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) Listed.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) Listed.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0) Listed.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9) Listed.

US - New Jersey RTK - Substances: Listed substance

Benzene (CAS 71-43-2)
Phosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl And Iso-pr) Esters, Zinc Salts (CAS 84605-29-8)

US - North Carolina Toxic Air Pollutants: Listed substance

Benzene (CAS 71-43-2)

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Benzene (CAS 71-43-2)

US - Texas Effects Screening Levels: Listed substance

Benzene (CAS 71-43-2) Listed.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7) Listed.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) Listed.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8) Listed.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0) Listed.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9) Listed.
Phosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl And Iso-pr) Esters, Zinc Salts (CAS 84605-29-8) Listed.

US - Washington Chemical of High Concern to Children: Listed substance

Benzene (CAS 71-43-2)

US. Massachusetts RTK - Substance List

Benzene (CAS 71-43-2)
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)

US. New Jersey Worker and Community Right-to-Know Act

Benzene (CAS 71-43-2)
Phosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl And Iso-pr) Esters, Zinc Salts (CAS 84605-29-8)

US. Pennsylvania Worker and Community Right-to-Know Law

Benzene (CAS 71-43-2)
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)

US. Rhode Island RTK

Benzene (CAS 71-43-2)
Phosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl And Iso-pr) Esters, Zinc Salts (CAS 84605-29-8)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Benzene (CAS 71-43-2) Listed: February 27, 1987

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997

Inventory status

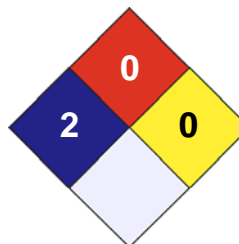
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	* 2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by

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Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.