



SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	IDO Premium Plus 5W40
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
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards	Not classified	
Label elements		



Signal word	Warning
Hazard statement	Causes serious eye irritation.
Precautionary statement	
Prevention	Wash thoroughly after handling. Wear eye/face protection.
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.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
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	Not applicable.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated heavy paraffinic		64742-54-7	37
Distillates (petroleum), solvent-dewaxed heavy paraffin		64742-65-0	7.8
Phosphorodithioic Acid, Mixed O,o-bis(1,3-dimethylbutyl And Iso-pr) Esters, Zinc Salts		84605-29-8	1.6
Distillates (petroleum), hydrotreated light naphthenic		64742-53-6	0.19
Benzenamine, N-phenyl-		122-39-4	0.15

4. First Aid Measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
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	Not available

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Large Spills: 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. Prevent entry into waterways, sewer, basements or confined areas. 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	Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling	Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls/Personal Protection

Occupational exposure limits

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

Components	Type	Value	Form
Benzenamine, N-phenyl- (CAS 122-39-4)	TWA	10 mg/m ³	

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

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742- 53-6)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
Benzenamine, N-phenyl- (CAS 122-39-4)	TWA	10 mg/m ³

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

Components	Type	Value	Form
Benzenamine, N-phenyl- (CAS 122-39-4)	TWA	10 mg/m ³	
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m ³	Inhalable fraction.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53- 6)	TWA	5 mg/m ³	Inhalable fraction.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	TWA	5 mg/m ³	Inhalable fraction.

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

Components	Type	Value	Form
Benzenamine, N-phenyl- (CAS 122-39-4)	TWA	10 mg/m ³	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742- 53-6)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.

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

Components	Type	Value	Form
Benzenamine, N-phenyl- (CAS 122-39-4)	TWA	10 mg/m ³	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742- 53-6)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.

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

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	PEL	5 mg/m3	Mist.
		2000 mg/m3 500 ppm	
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	PEL	5 mg/m3	Mist.
		2000 mg/m3 500 ppm	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Benzenamine, N-phenyl- (CAS 122-39-4)	TWA	10 mg/m3	
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	TWA	5 mg/m3	Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Benzenamine, N-phenyl- (CAS 122-39-4)	TWA	10 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Ceiling	1800 mg/m3	
	STEL	10 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.

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	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Not available.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance	Liquid
Physical state	Liquid.
Form	Liquid.
Color	Brown
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	0.85
Partition coefficient (n-octanol/water)	Not available.
Flash point	467.6 °F (242.0 °C) Cleveland Open 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	< 0.1 mm Hg @ 20°C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Negligible
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	90 cSt @ 40°C

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	Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Oxides of phosphorus.

11. Toxicological Information

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of exposure	
Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
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	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.	
Information on toxicological effects		
Acute toxicity		
Components	Species	Test Results
Benzenamine, N-phenyl- (CAS 122-39-4)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Guinea pig	300 mg/kg
	Mouse	1750 mg/kg
	Rat	1120 mg/kg
		2 g/kg
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
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)		
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
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 available.
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
ACGIH Carcinogens	
Arsenic (CAS 7440-38-2)	A1 Confirmed human carcinogen.
Benzenamine, N-phenyl- (CAS 122-39-4)	A4 Not classifiable as a human carcinogen.
Benzene (CAS 71-43-2)	A1 Confirmed human carcinogen.
Cadmium (CAS 7440-43-9)	A2 Suspected human carcinogen.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	A2 Suspected human carcinogen.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	A4 Not classifiable as a human carcinogen. A2 Suspected human carcinogen.
Lead (CAS 7439-92-1)	A4 Not classifiable as a human carcinogen. A3 Confirmed animal carcinogen with unknown relevance to humans.
Canada - Alberta OELs: Carcinogen category	
Arsenic (CAS 7440-38-2)	Confirmed human carcinogen.
Benzene (CAS 71-43-2)	Confirmed human carcinogen.
Cadmium (CAS 7440-43-9)	Suspected human carcinogen.
Canada - Manitoba OELs: carcinogenicity	
Arsenic and inorganic compounds, as As (CAS 7440-38-2)	Confirmed human carcinogen.
BENZENE (CAS 71-43-2)	Confirmed human carcinogen.
CADMIUM AND COMPOUNDS, AS CD, RESPIRABLE FRACTION (CAS 7440-43-9)	Suspected human carcinogen.
DIPHENYLAMINE (CAS 122-39-4)	Not classifiable as a human carcinogen.
LEAD AND INORGANIC COMPOUNDS, AS PB (CAS 7439-92-1)	Confirmed animal carcinogen with unknown relevance to humans.
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 64742-65-0)	Suspected 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 64742-65-0)	Not classifiable as a human carcinogen.
Canada - Quebec OELs: Carcinogen category	
Benzene (CAS 71-43-2)	Detected carcinogenic effect in humans.
Cadmium (CAS 7440-43-9)	Suspected carcinogenic effect in humans.
Lead (CAS 7439-92-1)	Detected carcinogenic effect in animals.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Arsenic (CAS 7440-38-2)	Volume 23, Supplement 7, Volume 100C 1 Carcinogenic to humans.
Benzene (CAS 71-43-2)	Volume 29, Supplement 7, Volume 100F 1 Carcinogenic to humans.
Cadmium (CAS 7440-43-9)	Volume 58, Volume 100C 1 Carcinogenic to humans.
Lead (CAS 7439-92-1)	Volume 23, Supplement 7 - 2B Possibly carcinogenic to humans.
US - California Proposition 65 - CRT: Listed date/Carcinogenic substance	
Arsenic (CAS 7440-38-2)	
Benzene (CAS 71-43-2)	
Cadmium (CAS 7440-43-9)	
Lead (CAS 7439-92-1)	
US NTP Report on Carcinogens: Anticipated carcinogen	
Lead (CAS 7439-92-1)	Reasonably Anticipated to be a Human Carcinogen.
US NTP Report on Carcinogens: Known carcinogen	
Arsenic (CAS 7440-38-2)	Known To Be Human Carcinogen.

Benzene (CAS 71-43-2)	Known To Be Human Carcinogen.
Cadmium (CAS 7440-43-9)	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), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	Known To Be Human Carcinogen.

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

Arsenic (CAS 7440-38-2)	Cancer
Benzene (CAS 71-43-2)	Cancer
Cadmium (CAS 7440-43-9)	Cancer

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Teratogenicity	Not available.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not available.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological Information

Ecotoxicity	See below		
Ecotoxicological data			
Components		Species	Test Results
Benzenamine, N-phenyl- (CAS 122-39-4)			
Algae	IC50	Algae	1.5 mg/L, 72 Hours
Crustacea	EC50	Daphnia	2.075 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.27 - 0.36 mg/L, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	3.471 - 4.141 mg/L, 96 hours
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)			
Crustacea	EC50	Daphnia	1000 mg/L, 48 Hours
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)			
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
Persistence and degradability	No data is available on the degradability of this product.		
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Mobility in general	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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

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 Hazardous Products Regulations (SOR/2015-17) and the SDS contains all the information required by the HPR.

Canada CEPA Schedule I: Listed substance

Arsenic (CAS 7440-38-2)	Listed.
Benzene (CAS 71-43-2)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Lead (CAS 7439-92-1)	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
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Canada Priority Substances List (Second List): Listed substance

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

Arsenic (CAS 7440-38-2)	Listed.
Benzene (CAS 71-43-2)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Lead (CAS 7439-92-1)	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)

Arsenic (CAS 7440-38-2)	Cancer
Benzene (CAS 71-43-2)	Cancer
Cadmium (CAS 7440-43-9)	Cancer
Lead (CAS 7439-92-1)	Reproductive toxicity
Arsenic (CAS 7440-38-2)	Liver
Benzene (CAS 71-43-2)	Central nervous system
Cadmium (CAS 7440-43-9)	Lung
Lead (CAS 7439-92-1)	Central nervous system
Arsenic (CAS 7440-38-2)	Skin
Benzene (CAS 71-43-2)	Blood
Cadmium (CAS 7440-43-9)	Kidney
Lead (CAS 7439-92-1)	Kidney
Arsenic (CAS 7440-38-2)	Respiratory irritation
Benzene (CAS 71-43-2)	Aspiration
Cadmium (CAS 7440-43-9)	Acute toxicity
Lead (CAS 7439-92-1)	Blood
Arsenic (CAS 7440-38-2)	Nervous system
Benzene (CAS 71-43-2)	Skin
Lead (CAS 7439-92-1)	Acute toxicity
Arsenic (CAS 7440-38-2)	Acute toxicity
Benzene (CAS 71-43-2)	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**

Arsenic (CAS 7440-38-2)
 Benzene (CAS 71-43-2)
 Cadmium (CAS 7440-43-9)
 Lead (CAS 7439-92-1)

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**

Arsenic (CAS 7440-38-2) Listed.
 Benzenamine, N-phenyl- (CAS 122-39-4) Listed.
 Benzene (CAS 71-43-2) Listed.
 Cadmium (CAS 7440-43-9) Listed.
 Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) Listed.
 Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0) Listed.
 Lead (CAS 7439-92-1) 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

Arsenic (CAS 7440-38-2)
 Benzene (CAS 71-43-2)
 Cadmium (CAS 7440-43-9)
 Lead (CAS 7439-92-1)
 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

Arsenic (CAS 7440-38-2) Listed.
 Benzene (CAS 71-43-2) Listed.
 Cadmium (CAS 7440-43-9) Listed.
 Lead (CAS 7439-92-1) 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

Arsenic (CAS 7440-38-2) ARSENIC
 Benzene (CAS 71-43-2) BENZENE
 Cadmium (CAS 7440-43-9) CADMIUM
 Lead (CAS 7439-92-1) LEAD
 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

Arsenic (CAS 7440-38-2) Listed.
 Benzenamine, N-phenyl- (CAS 122-39-4) Listed.
 Benzene (CAS 71-43-2) Listed.
 Cadmium (CAS 7440-43-9) Listed.
 Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) Listed.
 Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0) Listed.
 Lead (CAS 7439-92-1) Listed.

US - New Jersey RTK - Substances: Listed substance

Arsenic (CAS 7440-38-2)
Benzenamine, N-phenyl- (CAS 122-39-4)
Benzene (CAS 71-43-2)
Cadmium (CAS 7440-43-9)
Lead (CAS 7439-92-1)
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

Arsenic (CAS 7440-38-2)
Benzene (CAS 71-43-2)
Cadmium (CAS 7440-43-9)

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Arsenic (CAS 7440-38-2)
Benzene (CAS 71-43-2)
Cadmium (CAS 7440-43-9)

US - Texas Effects Screening Levels: Listed substance

Arsenic (CAS 7440-38-2)	Listed.
Benzenamine, N-phenyl- (CAS 122-39-4)	Listed.
Benzene (CAS 71-43-2)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	Listed.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Listed.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	Listed.
Lead (CAS 7439-92-1)	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

Arsenic (CAS 7440-38-2)
Benzene (CAS 71-43-2)
Cadmium (CAS 7440-43-9)

US. Massachusetts RTK - Substance List

Arsenic (CAS 7440-38-2)
Benzenamine, N-phenyl- (CAS 122-39-4)
Benzene (CAS 71-43-2)
Cadmium (CAS 7440-43-9)
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)
Lead (CAS 7439-92-1)

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

Arsenic (CAS 7440-38-2)
Benzenamine, N-phenyl- (CAS 122-39-4)
Benzene (CAS 71-43-2)
Cadmium (CAS 7440-43-9)
Lead (CAS 7439-92-1)
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

Arsenic (CAS 7440-38-2)
Benzenamine, N-phenyl- (CAS 122-39-4)
Benzene (CAS 71-43-2)
Cadmium (CAS 7440-43-9)
Lead (CAS 7439-92-1)

US. Rhode Island RTK

Arsenic (CAS 7440-38-2)
Benzenamine, N-phenyl- (CAS 122-39-4)
Benzene (CAS 71-43-2)
Cadmium (CAS 7440-43-9)
Lead (CAS 7439-92-1)
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

Arsenic (CAS 7440-38-2)	Listed: February 27, 1987
Benzene (CAS 71-43-2)	Listed: February 27, 1987

Cadmium (CAS 7440-43-9)

Listed: October 1, 1987

Lead (CAS 7439-92-1)

Listed: October 1, 1992

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

Benzene (CAS 71-43-2)

Listed: December 26, 1997

Cadmium (CAS 7440-43-9)

Listed: May 1, 1997

Lead (CAS 7439-92-1)

Listed: February 27, 1987

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

Lead (CAS 7439-92-1)

Listed: February 27, 1987

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

Benzene (CAS 71-43-2)

Listed: December 26, 1997

Cadmium (CAS 7440-43-9)

Listed: May 1, 1997

Lead (CAS 7439-92-1)

Listed: February 27, 1987

Inventory status

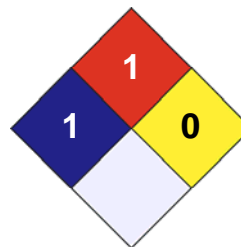
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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	/ 1
FLAMMABILITY	1
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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01

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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.