

## SAFETY DATA SHEET Synthetic Anti-Wear Hydraulic Oil ISO-32

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200 and WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR).

4 Identification		
1. Identification		
Product identifier		
Product name	Synthetic Anti-Wear Hydraulic Oil ISO-32	
Product number	AWH	
Recommended use of the chemical and restrictions on use		
Application	Hydraulic oil.	
Uses advised against	Avoid the formation of mists.	
Details of the supplier of the s	afety data sheet	
Supplier	AMSOIL INC. Bordner, Ladner, Gervais Scotia Plaza, 40 King St W Toronto, ON, Canada M5H 3Y4 T: +1 416-367-6547	
Manufacturer	AMSOIL INC. One AMSOIL Center, Superior, WI 54880, USA. T: +1 715-392-7101	
Emergency telephone numbe	<u>r</u>	
Emergency telephone	CHEMTREC: Within USA and Canada: 1-800-424-9300 Outside the USA and Canada: +1 703-741-5970 (collect calls accepted) 24/7	
2. Hazard(s) identification		
Classification of the substance	e or mixture	
OSHA/WHMIS Regulatory Status	This Product is not Hazardous under the OSHA Hazard Communication Standard and according to the hazard criteria of the Hazardous Product Regulations.	
Physical hazards	Not Classified	
Health hazards	Not Classified	
Environmental homenda		
Environmental hazards	Not Classified	
Label elements	Not Classified	
	Not Classified NC Not Classified	
Label elements		

### 3. Composition/information on ingredients

#### Mixtures

Hydrogenated base oil	50 - <55%
CAS number: 64742-54-7	
Classification Asp. Tox. 1 - H304	
Dec-1-ene, homopolymer, oligomers, hydrogenated	hydrogenated Dec-1-ene, 25 - <50%
CAS number: 68037-01-4	
Classification Asp. Tox. 1 - H304	
The full text for all hazard st	atements is displayed in Section 16.
4. First-aid measures	
Description of first aid meas	ures
General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Ingestion	Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin Contact	Rinse with water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.
Most important symptoms a	nd effects, both acute and delayed
General information	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Dryness of mouth and throat. Coughing, chest tightness, feeling of chest pressure. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death. Congestion of the lungs may occur, producing severe shortness of breath.
Ingestion	A single exposure may cause the following adverse effects: Irritation. Nausea, vomiting. Symptoms following overexposure may include the following: Unconsciousness. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Skin contact	A single exposure may cause the following adverse effects: Redness. Irritation.
Eye contact	A single exposure may cause the following adverse effects: Redness. Irritation.
Indication of immediate med	lical attention and special treatment needed
Notes for the doctor	Treat symptomatically.

5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the	he substance or mixture
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. Contains Hydrocarbons. The product is immiscible with water and will spread on the water surface.
Hazardous combustion products	Hydrocarbons. Carbon monoxide (CO). Carbon dioxide (CO2).
Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.
6. Accidental release measure	15
Personal precautions, protecti	ve equipment and emergency procedures
Personal precautions	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage.
Environmental precautions	
Environmental precautions	Immiscible with water. Aquatic toxicity is unlikely to occur. However, large or frequent spills may have hazardous effects on the environment. Absorb spillage with non-combustible, absorbent material. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
Methods and material for cont	ainment and cleaning up
Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Reuse or recycle products wherever possible. Approach the spillage from upwind. Small Spillages: Absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labeled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. Flush contaminated area with plenty of water. Wash

Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.	
7. Handling and storage		
Precautions for safe handling		
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers. Avoid contact with used product.	
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.	
Conditions for safe storage, in	cluding any incompatibilities	
Storage precautions	Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.	
Storage class	Chemical storage.	
Specific end uses(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.	
8. Exposure Controls/persona	I protection	
Ingredient comments	No exposure limits known for ingredient(s).	
Exposure controls		
Appropriate engineering controls	Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.	
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon	
	as any deterioration is detected. Frequent changes are recommended.	

Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Keep container tightly sealed when not in use.

### 9. Physical and Chemical Properties

Information on basic physical	and chemical properties
Appearance	Liquid.
Color	Straw.
Odor	Mild hydrocarbon.
Odor threshold	Not available.
рН	Not available.
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	228°C Cleveland open cup. [ASTM D 92]
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	0.8453
Solubility(ies)	Not known.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	7.4 cSt @ 100°C [ASTM D 445] 33.1 cSt @ 40°C [ASTM D 445]
Explosive properties	Not considered to be explosive.
Oxidizing properties	Does not meet the criteria for classification as oxidizing.
Fire point	248°C Cleveland open cup. [ASTM D 92]
Pour point	-51°C [ASTM D 97]
10. Stability and reactivity	

Reactivity

See the other subsections of this section for further details.

Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.	
Possibility of hazardous reactions	No potentially hazardous reactions known.	
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.	
Materials to avoid	Oxidizing agents. Acids - oxidizing.	
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.	
11. Toxicological information		
Information on toxicological eff	fects	
Toxicological effects	Not regarded as a health hazard under current legislation.	
Acute toxicity - oral Notes (oral LD₅o)	Based on available data the classification criteria are not met.	
Acute toxicity - dermal Notes (dermal LD <sub>50</sub> )	Based on available data the classification criteria are not met.	
Acute toxicity - inhalation Notes (inhalation LC <sub>50</sub> )	Based on available data the classification criteria are not met.	
Skin corrosion/irritation Animal data	Based on available data the classification criteria are not met.	
Serious eye damage/irritation Serious eye damage/irritation	Based on available data the classification criteria are not met.	
Respiratory sensitization Respiratory sensitization	Based on available data the classification criteria are not met.	
Skin sensitization Skin sensitization	Based on available data the classification criteria are not met.	
Germ cell mutagenicity Genotoxicity - in vitro	Based on available data the classification criteria are not met.	
Carcinogenicity Carcinogenicity	Based on available data the classification criteria are not met.	
IARC carcinogenicity	None of the ingredients are listed or exempt.	
Reproductive toxicity Reproductive toxicity - fertility	Based on available data the classification criteria are not met.	
Reproductive toxicity - development	Based on available data the classification criteria are not met.	
Specific target organ toxicity -	single exposure	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.	
Specific target organ toxicity -	repeated exposure	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.	

Aspiration hazard Aspiration hazard	Based on available data the classification criteria are not met.
General information	No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Dryness of mouth and throat. Coughing, chest tightness, feeling of chest pressure. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death. Congestion of the lungs may occur, producing severe shortness of breath.
Ingestion	A single exposure may cause the following adverse effects: Irritation. Nausea, vomiting. Symptoms following overexposure may include the following: Unconsciousness. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Skin Contact	A single exposure may cause the following adverse effects: Redness. Irritation.
Eye contact	A single exposure may cause the following adverse effects: Redness. Irritation.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target Organs	No specific target organs known.
Medical considerations	Skin disorders and allergies.

Toxicological information on ingredients.

### Hydrogenated base oil

Acute toxicity - oral	
Notes (oral LD₅₀)	LD₅₀ >5000 mg/kg, Oral, Rat REACH dossier information.
Acute toxicity - dermal	
Notes (dermal LD₅₀)	LD₅₀ >5000 mg/kg, Dermal, Rabbit REACH dossier information.
Acute toxicity - inhalation	
Notes (inhalation LC <sub>50</sub> )	$LC_{50}$ >5.53 mg/l, Inhalation, Rat REACH dossier information.
Skin corrosion/irritation	
Animal data	Dose: 0.5ml, 24 hours, Rabbit Erythema/eschar score: No erythema (0). Edema score: No oedema (0). REACH dossier information.
Serious eye damage/irritat	ion
Serious eye damage/irritation	Dose: 0.1ml, 72 hours, Rabbit REACH dossier information.
Skin sensitization	
Skin sensitization	Buehler test - Guinea pig: Not sensitizing. REACH dossier information.
Germ cell mutagenicity	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
Reproductive toxicity	
Reproductive toxicity - fertility	Screening - NOAEL > 1000 mg/kg/day, Oral, Rat P REACH dossier information.

Reproductive toxicity - development	<ul> <li>Developmental toxicity: - LOAEL: 125 mg/kg/day, Dermal, Rat REACH dossier information.</li> </ul>	
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated		
Acute toxicity - oral		
Notes (oral LD₅₀)	LD₅₀ >5000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.	
Acute toxicity - derma	<u>.</u>	
Notes (dermal LD₅o)	LD₅₀ >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.	
Acute toxicity - inhalat	ion	
Notes (inhalation LC₅₀	) LC₅₀ >5.2 mg/l, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.	
Skin corrosion/irritation	<u>n</u>	
Animal data	Dose: 0.5 mL, 24 hours, Rabbit Erythema/eschar score: No erythema (0). Edema score: No oedema (0). Primary dermal irritation index: 0.5 REACH dossier information. Based on available data the classification criteria are not met.	
Serious eye damage/i	rritation	
Serious eye damage/irritation	Dose: 0.1 mL, 72 hours, Rabbit Not irritating. REACH dossier information. Based on available data the classification criteria are not met.	
Skin sensitization		
Skin sensitization	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitizing. REACH dossier information. Based on available data the classification criteria are not met.	
Germ cell mutagenicit	<u>Y</u>	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.	
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.	
Reproductive toxicity		
Reproductive toxicity - fertility	One-generation study - NOAEL 1000 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.	
Aspiration hazard		
Aspiration hazard	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.	
12. Ecological Information		
-	regarded as dangerous for the environment. However, large or frequent spills may have ardous effects on the environment.	
Toxicity Bas	sed on available data the classification criteria are not met.	
Ecological information on ingredien	ts.	

Hydrogenated base oil

Acute aquatic toxicity

Acute toxicity - fi	sh	LL₅₀, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - a invertebrates	quatic	EL₅₀, 48 hours: > 10000 mg/l, Daphnia magna
Acute toxicity - a plants	quatic	NOEL, 72 hours: > 100 mg/l, Pseudokirchneriella subcapitata
	Dec-1-ene	e, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated
Toxicity		Based on available data the classification criteria are not met. Aquatic toxicity is unlikely to occur.
Acute aquatic to	xicity	
Acute toxicity - fi	sh	LL₅₀, 96 hours: >1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - a invertebrates	quatic	EL₅₀, 48 hours: >1000 mg/l, Daphnia magna
Acute toxicity - a plants	quatic	EL₅₀, 72 hours: >1000 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms		NOEC, 28 days: 2 mg/l, Activated sludge
Chronic aquatic	toxicity	
Chronic toxicity - invertebrates	aquatic	NOELR, 21 days: 125 mg/l, Daphnia magna
Persistence and degradability		
Porsistones and degradability	The dear	
Fersistence and degradability	The degi	radability of the product is not known.
Ecological information on ingr	_	adability of the product is not known.
	_	Adability of the product is not known. Hydrogenated base oil
	_	
Ecological information on ingr	edients.	Hydrogenated base oil Water - Degradation 31: 28 days
Ecological information on ingr	edients.	Hydrogenated base oil Water - Degradation 31: 28 days Inherently biodegradable.
Ecological information on ingr Biodegradation Persistence and	edients.	Hydrogenated base oil Water - Degradation 31: 28 days Inherently biodegradable. a, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated
Ecological information on ingr Biodegradation Persistence and degradability	edients.	Hydrogenated base oil Water - Degradation 31: 28 days Inherently biodegradable. a, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated Not readily biodegradable.
Ecological information on ingr Biodegradation Persistence and degradability Biodegradation	edients.	Hydrogenated base oil Water - Degradation 31: 28 days Inherently biodegradable. a, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated Not readily biodegradable.
Ecological information on ingr Biodegradation Persistence and degradability Biodegradation Bioaccumulative potential	edients.	Hydrogenated base oil Water - Degradation 31: 28 days Inherently biodegradable. a, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated Not readily biodegradable. Water - Degradation 2%: 28 days available on bioaccumulation.
Ecological information on ingr Biodegradation Persistence and degradability Biodegradation Bioaccumulative potential Bio-Accumulative Potential	edients. Dec-1-ene No data Not avail	Hydrogenated base oil Water - Degradation 31: 28 days Inherently biodegradable. a, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated Not readily biodegradable. Water - Degradation 2%: 28 days available on bioaccumulation.
Ecological information on ingr Biodegradation Persistence and degradability Biodegradation Bioaccumulative potential Bio-Accumulative Potential Partition coefficient	edients. Dec-1-ene No data Not avail	Hydrogenated base oil Water - Degradation 31: 28 days Inherently biodegradable. a, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated Not readily biodegradable. Water - Degradation 2%: 28 days available on bioaccumulation.
Ecological information on ingr Biodegradation Persistence and degradability Biodegradation Bioaccumulative potential Bio-Accumulative Potential Partition coefficient	edients. Dec-1-ene No data Not avail edients. Dec-1-ene	Hydrogenated base oil Water - Degradation 31: 28 days Inherently biodegradable. <b>a, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</b> Not readily biodegradable. Water - Degradation 2%: 28 days available on bioaccumulation. able.
Ecological information on ingr Biodegradation Persistence and degradability Biodegradation Bioaccumulative potential Bio-Accumulative Potential Partition coefficient Ecological information on ingr	edients. Dec-1-ene No data Not avail edients. Dec-1-ene	Hydrogenated base oil Water - Degradation 31: 28 days Inherently biodegradable. a, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated Not readily biodegradable. Water - Degradation 2%: 28 days available on bioaccumulation. able.

### Ecological information on ingredients.

	Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated
Mobility	The product is insoluble in water.
Surface tension	27-29 mN/m @ 20°C
Other adverse effects	
Other adverse effects	None known.
13. Disposal considerations	
Waste treatment methods	
General information	The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.
14. Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT, TDG).
UN Number	
Not applicable.	
UN proper shipping name	
Not applicable.	
Transport hazard class(es)	
<b>Transport labels</b> No transport warning sign req	uired.
Packing group	
Not applicable.	
Environmental hazards	
Environmentally Hazardous S No.	ubstance
Special precautions for user	
Not applicable.	
DOT TIH Zone	Not applicable.

### Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information		
10. I togulatory information		
Regulatory References	OSHA Hazard Communication Standard 29 CFR §1910.1200 Hazardous Products Regulation (SOR/2015-17) Transportation of Dangerous Goods Regulations -SOR/2015-100.	
US Federal Regulations		
SARA Section 302 Extreme None of the ingredients are	ely Hazardous Substances Tier II Threshold Planning Quantities e listed.	
<b>CERCLA/Superfund, Haza</b> None of the ingredients are	rdous Substances/Reportable Quantities (EPA) e listed.	
SARA Extremely Hazardou None of the ingredients are	us Substances EPCRA Reportable Quantities	
SARA 313 Emission Report The following ingredients a	-	
<i>Phosphorodithioic acid, O,</i> 1.0 %	O-di-C1-14-alkyl esters, zinc salts	
CAA Accidental Release P None of the ingredients are		
FDA - Essential Chemical None of the ingredients are	e listed or exempt.	
FDA - Precursor Chemical None of the ingredients are	e listed or exempt.	
SARA (311/312) Hazard Control None of the ingredients are	-	
OSHA Highly Hazardous ( None of the ingredients are		
US State Regulations California Proposition 65 C None of the ingredients are	arcinogens and Reproductive Toxins e listed.	
California Air Toxics "Hot S None of the ingredients are		
California Air Toxics "Hot S None of the ingredients are		
California Directors List of Hazardous Substances None of the ingredients are listed.		
Massachusetts "Right To Know" List		

None of the ingredients are listed.

### Rhode Island "Right To Know" List

None of the ingredients are listed.

Minnesota "Right To Know" List None of the ingredients are listed.

## New Jersey "Right To Know" List

None of the ingredients are listed.

### Pennsylvania "Right To Know" List None of the ingredients are listed.

### Inventories

### Canada - DSL/NDSL

All the ingredients are listed or exempt.

### US - TSCA

All the ingredients are listed or exempt.

### US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

### 16. Other information

Abbreviations and acronyms used in the safety data sheet	C.A.S. = Chemical Abstracts Service; E.C. No = European Commission number; GHS = Globally Harmonised System; OSHA = Occupational Safety and Health Administration; WHMIS = Workplace Hazardous Materials Information System; DOT = Department of Transport; TDG = Transport of Dangerous Goods Regulations; IMDG = International Maritime Dangerous Goods; IATA = International Air Transport Association; SARA = Superfund Amendments and Reauthorization Act; CERCLA = Comprehensive Environmental; EPCRA = Emergency Planning and Community Right-to-Know Act; TSCA = Toxic Substances Control Act; LD/LC/EC = Lethal Dose,Lethal Concentration/Effect Concentration for 50% of population; NOEC = No Overall Effect Concentration; NOEL = No Overall Effect Level; REACH = Registration, Evaluation, Authorisation & Restriction of Chemicals; STOT-RE = Single Target Organ Toxicity - Repeat Exposure; STOT-SE= Specific Target Organ Toxicity - Single Exposure; PBT = Persistent, Bioaccumulative, Toxic; vPvB = Very Persistent, Very Bioaccumulative.
Key literature references and sources for data	Source: European Chemicals Agency, http://echa.europa.eu/
Training advice	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
Revision date	6/14/2017
Revision	0
SDS No.	5881
Hazard statements in full	H304 May be fatal if swallowed and enters airways.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.