



SAFETY DATA SHEET

Signature Series Multi-Vehicle Synthetic Automatic Transmission Fluid

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 14	
1. Identification	
Product identifier	
Product name	Signature Series Multi-Vehicle Synthetic Automatic Transmission Fluid
Product number	ATF
Recommended use of the che	emical and restrictions on use
Application	Transmission fluid.
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 compliance@amsoil.com
Emergency telephone number	
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 hazards	Aquatic Acute 3 - H402 Aquatic Chronic 3 - H412
Label elements	
Hazard statements	H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. P501 Dispose of contents/ container in accordance with national regulations.
Other hazards	

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients	
Mixtures	
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated CAS number: 68037-01-4	10 - <25%
Classification Asp. Tox. 1 - H304	
Hydrogenated base oil CAS number: 64742-54-7	10 - <25%
Classification Asp. Tox. 1 - H304	
Hydrogenated base oil CAS number: 8042-47-5	2.5 - <5%
Classification Asp. Tox. 1 - H304	
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich CAS number: 398141-87-2	1 - <2.5%
Classification Aquatic Chronic 2 - H411	
Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs. CAS number: —	0.5 - <1%
Classification Skin Sens. 1B - H317	
C14-18 alpha-olefin epoxide, reaction products with boric acid	0.25 - <0.5%
CAS number: —	
Classification Skin Sens. 1B - H317	
Benzene, polypropene derivatives, sulfonated, calcium salts CAS number: 75975-85-8	0.25 - <0.5%
Classification Eye Irrit. 2A - H319 Skin Sens. 1 - H317	

1,2-Propanediol, 3-amino-, N,N CAS number: —	dicoco alkyl derivs.	0.25 - <0.5%
Classification Skin Sens. 1B - H317 Aquatic Chronic 3 - H412		
1-(tert-Dodecylthio)propan-2-ol		0.25 - <0.5%
CAS number: 67124-09-8		
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
2,2'-(C16-18 (evennumbered, C diethanol	18 unsaturated) alkyl imino)	0.025 - <0.25%
CAS number: 1218787-32-6 M factor (Acute) = 10	M factor (Chronic) = 1	
Classification Acute Tox. 4 - H302 Skin Corr. 1C - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
2-(2-heptadec-8-enyl-2-imidazo	lin-1-vl)ethanol	<0.025%
CAS number: 95-38-5		0.02077
M factor (Acute) = 10	M factor (Chronic) = 1	
Classification Acute Tox. 4 - H302 Skin Corr. 1C - H314 Eye Dam. 1 - H318 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

Xylene	<0.025%
CAS number: 1330-20-7	
Classification	
Flam. Liq. 3 - H226	
Acute Tox. 4 - H312	
Acute Tox, 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
STOT SE 3 - H335	
STOT RE 2 - H373	
Asp. Tox. 1 - H304	
Ethylbenzene	<0.0259
CAS number: 100-41-4	
Classification	
Flam. Liq. 2 - H225	
Acute Tox. 4 - H332	
STOT RE 2 - H373	
Asp. Tox. 1 - H304	
Aquatic Chronic 3 - H412	
The full text for all hazard st Composition comments	tatements is displayed in Section 16. The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200.
	The exact percentage is withheld as a trade secret in accordance with 29 CFK 1910. 1200.
4. First-aid measures	
Description of first aid meas	
General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medica 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 wate 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 a unconscious person. Maintain an open airway. Loosen tight clothing such as collar, tie or bel
Skin Contact	Remove affected person from source of contamination. Rinse immediately with plenty of 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.
Eye contact Protection of first aiders	apart. Continue to rinse for at least 10 minutes.

Most important symptoms and effects, both acute and delayed

General informationSee 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.InhalationProlonged inhalation of high concentrations may damage respiratory system.

be inhaled, resulting in the same symptoms as inhalation. Skin contact Prolonged contact may cause dryness of the skin. Eye contact May cause temporary eye irritation. Indication of immediate medical attention and special treatment needed Indication of immediate medical attention and special treatment needed Notes for the doctor Treat symptomatically. Specific treatments No special treatment required. 5. Fire-fighting measures Indication of immediae medical treatment required. 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. Specific hazards arising from t= substance or mixture Specific hazards Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. Hazardous combustion products may include the following substances: Harmful gases or vapors. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
Eye contactMay cause temporary eye irritation.Indication of immediate medical attention and special treatment neededNotes for the doctorTreat symptomatically.Specific treatmentsNo special treatment required.5. Fire-fighting measuresExtinguishing mediaSuitable extinguishing mediaOn ont use water fog. Use fire-extinguishing media suitable for the surrounding fire.Unsuitable extinguishingDo not use water jet as an extinguisher, as this will spread the fire.Specific hazardsContainers can burst violently or explode when heated, due to excessive pressure build-up.Hazardous combustion productsThermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
Indication of immediate medical attention and special treatment neededNotes for the doctorTreat symptomatically.Specific treatmentsNo special treatment required.5. Fire-fighting measuresExtinguishing mediaSuitable extinguishing mediaSuitable extinguishing mediaDo not use water fog. Use fire-extinguishing media a suitable for the surrounding fire.Unsuitable extinguishingDo not use water jet as an extinguisher, as this will spread the fire.Specific hazardsContainers can burst violently or explode when heated, due to excessive pressure build-up.Hazardous combustion productsThermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
Notes for the doctor Treat symptomatically. Specific treatments No special treatment required. 5. Fire-fighting measures Extinguishing media 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 substance or mixture Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
Specific treatmentsNo special treatment required.5. Fire-fighting measuresExtinguishing mediaSuitable extinguishing mediaThe 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 mediaDo not use water jet as an extinguisher, as this will spread the fire.Special hazards arising from the substance or mixtureSpecific hazardsContainers can burst violently or explode when heated, due to excessive pressure build-up.Hazardous combustion productsThermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
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 substance or mixture Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
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 substance or mixture Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
Suitable extinguishing mediaThe 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 mediaDo not use water jet as an extinguisher, as this will spread the fire.Special hazards arising from the substance or mixtureContainers can burst violently or explode when heated, due to excessive pressure build-up.Hazardous combustion productsThermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.Unsuitable extinguishing mediaDo not use water jet as an extinguisher, as this will spread the fire.Special hazards arising from the substance or mixtureSpecific hazardsContainers can burst violently or explode when heated, due to excessive pressure build-up.Hazardous combustion productsThermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
media Special hazards arising from the substance or mixture Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. Hazardous combustion products combustion or combustion products may include the following substances: Harmful gases or vapors.
Specific hazardsContainers can burst violently or explode when heated, due to excessive pressure build-up.Hazardous combustion productsThermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
Hazardous combustionThermal decomposition or combustion products may include the following substances:productsHarmful gases or vapors.
products Harmful gases or vapors.
Advice for firefighters
Protective actions duringAvoid 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.
Special protective equipment for firefightersWear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves, that provides a basic level of protection during chemical incidents is defined by the Canada Occupational Health and Safety Regulations, by provincial guidelines on occupational health and safety or by NFPA standards if applicable.
6. Accidental release measures
Personal precautions, protective 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. Use protective equipment appropriate for surrounding materials.
Environmental precautions
Environmental precautions Harmful to aquatic life with long lasting effects. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
Methods and material for containment 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. Absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.
Reference to other sections	For personal protection, see Section 8. 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 contact with used product. Do not reuse empty containers. Avoid the formation of mists.
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). Keep container tightly closed, in a cool, well ventilated place. 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
Control parameters Occupational exposure limits Comments	The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.
Xylene	
Long-term exposure limit (8-hour TWA): OSHA 100 ppm 435 mg/m ³ Long-term exposure limit (8-hour TWA): ACGIH 100 ppm 434 mg/m ³ Short-term exposure limit (15-minute): ACGIH 150 ppm 651 mg/m ³ A4	
Ethylbenzene	
Long-term exposure limit (8-hour TWA): OSHA 100 ppm 435 mg/m ³ Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 87 mg/m ³ A3 OSHA = Occupational Safety and Health Administration. ACGIH = American Conference of Governmental Industrial Hygienists. A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans. A4 = Not Classifiable as a Human Carcinogen.	

Ethylbenzene (CAS: 100-41-4)

Immediate danger to life 800 ppm and health

Exposure controls	
Appropriate engineering controls	Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.
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 and/or the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.6), and any relevant provincial regulation relating to health and safety at work. The following protection should be worn: Chemical splash goggles.
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/or the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.9), 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.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
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.
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

Vapor pressure	Not available.
Vapor density	Not available.
Relative density	0.8408
Solubility(ies)	Not known.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	38.5 cSt @ 40°C 7.5 cSt @ 100°C [ASTM D 445]
Explosive properties	Not considered to be explosive.
Oxidizing properties	Does not meet the criteria for classification as oxidizing.
Fire point	246°C Cleveland open cup. [ASTM D 92]
Pour point	-53°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	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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 ef	fects
Toxicological effects	Not regarded as a health hazard under current legislation.
<u>Acute toxicity - oral</u> Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
<u>Acute toxicity - dermal</u> Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation LC_{50})	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.
Aspiration hazard	
Aspiration hazard Aspiration hazard	Based on available data the classification criteria are not met. No specific health hazards known. The severity of the symptoms described will vary
Aspiration hazard Aspiration hazard General information	Based on available data the classification criteria are not met. No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Aspiration hazard Aspiration hazard General information Inhalation	Based on available data the classification criteria are not met. No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Prolonged inhalation of high concentrations may damage respiratory system. Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may
Aspiration hazard Aspiration hazard General information Inhalation Ingestion	Based on available data the classification criteria are not met. No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Prolonged inhalation of high concentrations may damage respiratory system. Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Aspiration hazard Aspiration hazard General information Inhalation Ingestion Skin Contact	 Based on available data the classification criteria are not met. No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Prolonged inhalation of high concentrations may damage respiratory system. Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation. Prolonged contact may cause dryness of the skin.
Aspiration hazard Aspiration hazard General information Inhalation Ingestion Skin Contact Eye contact	 Based on available data the classification criteria are not met. No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Prolonged inhalation of high concentrations may damage respiratory system. Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation. Prolonged contact may cause dryness of the skin. May cause temporary eye irritation.
Aspiration hazard Aspiration hazardGeneral informationInhalationIngestionSkin ContactEye contactRoute of exposure	 Based on available data the classification criteria are not met. No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Prolonged inhalation of high concentrations may damage respiratory system. Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation. Prolonged contact may cause dryness of the skin. May cause temporary eye irritation. Ingestion Inhalation Skin and/or eye contact

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 - dermal	

Notes (dermal LD₅₀)	LD₅₀ >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Notes (inhalation LC_{50})	LC_{50} >5.2 mg/l, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.
Skin corrosion/irritation	
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/irritati	on
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 mutagenicity	
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

Toxicity

Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

Dec-1-ene, 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 toxicity	
Acute toxicity - fish	LL₅₀, 96 hours: >1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EL₅₀, 48 hours: >1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL₅₀, 72 hours: >1000 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	NOEC, 28 days: 2 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic NOELR, 21 days: 125 mg/l, Daphnia magna **invertebrates**

Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

	Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	
Persistence and degradability	Not readily biodegradable.	
Biodegradation	Water - Degradation 2%: 28 days	
Bioaccumulative potential		
Bio-Accumulative Potential	No data available on bioaccumulation.	
Partition coefficient	Not available.	
Ecological information on ing	redients.	
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated		
Partition coeffici	ent log Pow: >6.5	
Mobility in soil		
Mobility	No data available.	
Ecological information on ing	redients.	
	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.	
Disposal methods	Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.	
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)

Transport labels

No transport warning sign required.

Packing group

Not applicable.

Environmental hazards

Environmentally Hazardous Substance No.

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	
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 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The following ingredients are listed or exempt:

Xylene Final CERCLA RQ: 100(45.4) pounds (Kilograms)

Ethylbenzene Final CERCLA RQ: 1000(454) pounds (Kilograms)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

SARA 313 Emission Reporting

The following ingredients are listed or exempt:

Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated 1.0 %

Xylene 0.1 % 1.0 %

Ethylbenzene 0.1 %

CAA Accidental Release Prevention None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals None of the ingredients are listed or exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins The following ingredients are listed or exempt: *Ethylbenzene* Known to the State of California to cause cancer.

California Air Toxics "Hot Spots" (A-I) The following ingredients are listed or exempt:

Xylene

Ethylbenzene

California Air Toxics "Hot Spots" (A-II) None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

Xylene

Ethylbenzene

Massachusetts "Right To Know" List The following ingredients are listed or exempt:

Xylene

Ethylbenzene

Dibutyl phosphonate

Hydrogenated base oil

Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

Xylene

Ethylbenzene

Minnesota "Right To Know" List

The following ingredients are listed or exempt:

Xylene

Ethylbenzene

New Jersey "Right To Know" List

The following ingredients are listed or exempt:

Xylene

Ethylbenzene

Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

Xylene

Ethylbenzene

Dibutyl phosphonate

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 comments	This is the first issue.
Revision date	2/19/2018
SDS No.	7025

Hazard statements in full	 H225 Highly flammable liquid and vapor. H226 Flammable liquid and vapor. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs (Central nervous system, Liver, Kidneys) through prolonged or repeated exposure. H373 May cause damage to organs (Hearing organs) through prolonged or repeated

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.