



SAFETY DATA SHEET AMSOIL Synthetic CVT 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).

1. Identification		
Product identifier		
Product name	AMSOIL Synthetic CVT Fluid	
Product number	CVT	
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 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 hazards	Not Classified	
Label elements Hazard statements	NC Not Classified	
Other hazards		
This product does not contain any substances classified as PBT or vPvB.		
3. Composition/information on ingredients		

Mixtures

Hydrogenated base oil		25 - <50%
CAS number: 64742-55-8		
Classification		
Asp. Tox. 1 - H304		
Hydrogenated base oil		25 - <50%
CAS number: 64742-54-7		
Classification		
Asp. Tox. 1 - H304		
Dibutyl phosphonate		1 - <2.5%
CAS number: 1809-19-4		
Classification		
Skin Irrit. 2 - H315		
Eye Irrit. 2A - H319		
Aquatic Chronic 3 - H412		
Tris(2-ethylhexyl) orthoborate	9	1 - <2.5%
CAS number: 2467-13-2		
Classification		
Eye Irrit. 2A - H319		
		4 -0 5%
bis(Nonylphenyl)amine		1 - <2.5%
CAS number: 36878-20-3		
Classification		
Aquatic Chronic 4 - H413		
Acetamide, 2-hydroxy-, N,N-	dicoco alkyl derivs.	1 - <2.5%
CAS number: —		
Classification		
Skin Sens. 1B - H317		
The full text for all hazard stat	ements is displayed in Section 16.	
Composition comments	The exact percentage is withheld as a trade secret in accordance with 29 CFR 19	10.1200
4. First-aid measures		
Description of first aid measure		
General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to personnel.	the medical
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comforta breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or beli	

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	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.
Most important symptoms and	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	Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion	Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may 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 medicate	al attention and special treatment needed
Notes for the doctor	Treat symptomatically.
Specific treatments	No special treatment required.
5. Fire-fighting measures	
5. Fire-fighting measures Extinguishing media	
	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.
Extinguishing media	
Extinguishing media Suitable extinguishing media Unsuitable extinguishing	extinguishing media suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire.
Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	extinguishing media suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire.
Extinguishing media Suitable extinguishing media Unsuitable extinguishing media Special hazards arising from th	extinguishing media suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire. <u>he substance or mixture</u> 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
Extinguishing media Suitable extinguishing media Unsuitable extinguishing media Special hazards arising from the Specific hazards	extinguishing media suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire. he substance or mixture 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. Thermal decomposition or combustion products may include the following substances:
Extinguishing media Suitable extinguishing media Unsuitable extinguishing media <u>Special hazards arising from the</u> Specific hazards Hazardous combustion products	extinguishing media suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire. he substance or mixture 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. Thermal decomposition or combustion products may include the following substances:

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	Avoid discharge to the aquatic environment.	
Methods and material for conta	inment 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 the formation of mists. Avoid contact with used product. Do not reuse empty containers.	
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, inc	luding 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/personal	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.	

Under conditions which may generate mists, the following exposure limits are recommended: Long-term exposure limit (8-hour TWA): 5 mg/m³ Short-term exposure limit (15-minute): 10 mg/m³

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	Not regarded as dangerous for the environment.

9. Physical and Chemical Properties

Information on basic physical and chemical properties		
Appearance	Liquid.	
Color	Amber.	
Odor	Mild hydrocarbon.	
Odor threshold	Not available.	
рН	Not available.	
Melting point	Not available.	
Initial boiling point and range	Not available.	
Flash point	212°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	0.8478
Solubility(ies)	Not known.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	32.8 cSt @ 40°C 7.1 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	224°C Cleveland open cup. [ASTM D 92]
Pour point	-45°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.
Acute toxicity - oral Notes (oral LD₅o)	Based on available data the classification criteria are not met.
Acute toxicity - dermal Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation LC₅₀)	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	Prolonged inhalation of high concentrations may damage respiratory system.	
Ingestion	Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may 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.	
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 LD50 >5000 mg/kg, Oral, Rat REACH dossier information. Based on available data Notes (oral LD₅₀) the classification criteria are not met. Acute toxicity - dermal Notes (dermal LD₅₀)

LD50 >2000 mg/kg, Dermal, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LC_{50} 2.18 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 Primary dermal irritation index: 2.34 / 4 REACH dossier information. Not irritating.
Serious eye damage/irritati	on
Serious eye damage/irritation	Dose: 0.1 ml, 1 second, Rabbit REACH dossier information. Not irritating.
Skin sensitization	
Skin sensitization	Buehler test - Guinea pig: Not sensitizing. REACH dossier information.
Germ cell mutagenicity	
Genotoxicity - in vitro	Chromosome aberration: 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
Reproductive toxicity - development	Maternal toxicity: - LOAEL: 125 mg/kg/day, Dermal, Rat REACH dossier information.
	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 LC₅₀)	LC₅₀ >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/irritati	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	Developmental toxicity: - LOAEL: 125 mg/kg/day, Dermal, Rat REACH dossier information.
12. Ecologie	cal Information	
Ecotoxicity	-	arded as dangerous for the environment. However, large or frequent spills may have ous effects on the environment.
Toxicity	Based	on available data the classification criteria are not met.
Ecological i	nformation on ingredients.	
		Hydrogenated base oil
	Toxicity	Aquatic toxicity is unlikely to occur.
	Acute aquatic toxicity	
	Acute toxicity - fish	LL₅₀, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.
	Acute toxicity - aquatic invertebrates	LL ₅₀ , 24 hours: > 10 000 mg/l, Gammarus pulex REACH dossier information.
	Acute toxicity - aquatic plants	NOEL, 72 hours: ≥ 100 mg/l, Pseudokirchneriella subcapitata REACH dossier information.
	Acute toxicity - microorganisms	NOEL, 10 minutes: > 1.93 mg/l, REACH dossier information.
	Chronic aquatic toxicity	
	Chronic toxicity - aquatic invertebrates	NOEL, 21 days: 10 mg/l, Daphnia magna REACH dossier information.
		Hydrogenated base oil
	Acute aquatic toxicity	
	Acute toxicity - fish	LL₅₀, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)
	Acute toxicity - aquatic invertebrates	EL₅₀, 48 hours: > 10000 mg/l, Daphnia magna
	Acute toxicity - aquatic plants	NOEL, 72 hours: > 100 mg/l, Pseudokirchneriella subcapitata
Persistence	and degradability	
Persistence	and degradability The deg	gradability of the product is not known.
Ecological i	nformation on ingredients.	
		Hydrogenated base oil
	Persistence and degradability	The product is not biodegradable.
	Biodegradation	Water - Degradation 2-8%: 28 days
		Hydrogenated base oil

Hydrogenated base oil

Biodegradation	Water - Degradation 31: 28 days Inherently biodegradable.
Bioaccumulative potential	
Bio-Accumulative Potential	No data available on bioaccumulation.
Partition coefficient	Not available.
Ecological information on ingr	edients.
	Hydrogenated base oil
Bio-Accumulative	e Potential The product contains potentially bioaccumulating substances.
Mobility in soil	
Mobility	No data available.
Ecological information on ingr	edients.
	Hydrogenated base oil
Mobility	The product is insoluble in water.
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 req	uired.
Packing group	
Not applicable.	
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Environmental hazards	
Environmentally Hazardous Su No.	ubstance
Special precautions for user	
Not applicable.	
DOT TIH Zone	Not applicable.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
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 None of the ingredients are lis	Hazardous Substances Tier II Threshold Planning Quantities ted or exempt.
CERCLA/Superfund, Hazardo None of the ingredients are lis	us Substances/Reportable Quantities (EPA) ted or exempt.
SARA Extremely Hazardous S	Substances EPCRA Reportable Quantities
None of the ingredients are lis	-
SARA 313 Emission Reporting	
None of the ingredients are lis	-
CAA Accidental Release Prevention None of the ingredients are list	
SARA (311/312) Hazard Cates None of the ingredients are lis	-
OSHA Highly Hazardous Che None of the ingredients are lis	
US State Regulations	
California Proposition 65 Carc None of the ingredients are lis	inogens and Reproductive Toxins ted or exempt.
California Air Toxics "Hot Spot None of the ingredients are lis	
California Air Toxics "Hot Spot None of the ingredients are lis	
California Directors List of Haz None of the ingredients are lis	
Massachusetts "Right To Know The following ingredients are I Dibutyl phosphonate	

Hydrogenated base oil

Rhode Island "Right To Know" List

None of the ingredients are listed or exempt.

Minnesota "Right To Know" List

None of the ingredients are listed or exempt.

New Jersey "Right To Know" List

None of the ingredients are listed or exempt.

Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

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	2/28/2018	
SDS No.	7083	

Hazard statements in full	H304 May be fatal if swallowed and enters airways.
	H315 Causes skin irritation.

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

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.