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SAFETY DATA SHEET

Synthetic Powershift Transmission Fluid, SAE 30, Synthetic Powershift Transmission Fluid, SAE 50

Section 1. Identification		Date Version	 11/30/2016 7
GHS product identifier	: Synthetic Powershift Transmission Fluid, SAE 30, Synthetic Powershift Transmission Fluid, SAE 50		
Code	: CTJ, CTL		
Product type	: Liquid.		
Identified uses	: Transmission Fluid.		
Manufacturer	: AMSOIL INC. One AMSOIL Center Superior, WI 54880 Tel: +1 715-392-7101		
Initial Supplier (Canada)	: AMSOIL INC. Bordner, Ladner, Gervais Scotia Plaza, 40 King St W Toronto, ON, Canada M5H 3Y4 Tel: +1 416-367-6547		
Emergency telephone number (with hours of operation)	: CHEMTREC: Within USA and Canada: 1-800-424-9300; Outside USA and Canada: +1 703-741-5970 (collect calls (24/7)	accepted)	

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects.

Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid release to the environment. Wash hands thoroughly after handling.
Response	: IF exposed or concerned: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise class	ified (HNOC)
Physical hazards not otherwise classified (PHNOC)	: None known.
Health hazards not otherwise classified (HHNOC)	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers		
CAS number	:	Not applicable.
Product code	;	CTJ, CTL
In one diamé manage		

Ingredient name	%	CAS number
Zinc Alkyldithiophosphate	1 - 5	68649-42-3
Hydrogenated Base Oil (64742-55-8)	0.1 - 1	64742-55-8
p-Dodecylphenol	0.1 - 1	104-43-8
Cadmium (Non-pyrophoric)	0 - 0.1	7440-43-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

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Eye contact
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: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

	ns/effects, acute and delayed
Potential acute health e	effects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/s	<u>ymptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	 Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	 Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
ndication of immediate	medical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protec	ive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Avoid contact with used product. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Under conditions which may generate mists, the following additional exposure limits are recommended: ACGIH TLV TWA: 5 mg/m³; STEL: 10 mg/m³.

United States

Ingredient name		Exposure limits		
Cadmium (Non-pyrophoric)		OSHA PEL Z2 (United States, 2/2013). TWA: 0.2 mg/m ³ 8 hours. Form: Dust CEIL: 0.6 mg/m ³ Form: Dust TWA: 0.1 mg/m ³ 8 hours. Form: Fume CEIL: 0.3 mg/m ³ Form: Fume ACGIH TLV (United States, 3/2015). TWA: 0.01 mg/m ³ , (as Cd) 8 hours. Form: Inhalable fraction TWA: 0.002 mg/m ³ , (as Cd) 8 hours. Form: Respirable fraction OSHA PEL (United States, 2/2013). TWA: 5 μg/m ³ , (as Cd) 8 hours.		
<u>Canada</u>		,		
Occupational exposure lime None.	<u>lits</u>			
Appropriate engineering controls	local exhaust ventilation o	e dust, fumes, gas, vapor or mist, use process enclosures, r other engineering controls to keep worker exposure to low any recommended or statutory limits.		
Environmental exposure controls		Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.		
Individual protection measure	ures			
Hygiene measures	eating, smoking and using Appropriate techniques sh	Ind face thoroughly after handling chemical products, before g the lavatory and at the end of the working period. hould be used to remove potentially contaminated clothing. ing before reusing. Ensure that eyewash stations and safety workstation location.		
Eye/face protection	assessment indicates this gases or dusts. If contact	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.		
Skin protection				
Hand protection		vious gloves complying with an approved standard should be ndling chemical products if a risk assessment indicates this is		
Body protection		ment for the body should be selected based on the task being nvolved and should be approved by a specialist before		
Other skin protection		any additional skin protection measures should be selected erformed and the risks involved and should be approved by a this product.		
Respiratory protection	appropriate standard or ce	potential for exposure, select a respirator that meets the ertification. Respirators must be used according to a gram to ensure proper fitting, training, and other important		

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	: Liquid.	
Color	Red.	
Odor	: Mild hydrocarbon.	
Odor threshold	Not available.	
рН	Not available.	
Melting point	: -40 to -39°C (-40 to -38.2°F)	
Boiling point	Not available.	
Flash point	: Open cup: 232 to 238°C (449.6 to 460.4°F) [Cleveland.	.]
Evaporation rate	Not available.	
Flammability (solid, gas)	: Not available.	
Lower and upper explosive (flammable) limits	Not available.	
Vapor pressure	: Not available.	
Vapor density	Not available.	
Relative density	: 0.8745 to 0.8855	
Solubility	Not available.	
Partition coefficient: n- octanol/water	: Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	: Kinematic: 0.11 to 0.189 cm ² /s (11 to 18.9 cSt) (100°C) Kinematic: 0.765 to 1.74 cm ² /s (76.5 to 174 cSt) (40°C)	
Volatility	Not available.	

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Cadmium (Non-pyrophoric)	LD50 Oral	Rat	2330 mg/kg	-

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Cadmium (Non-pyrophoric)	+	1	Known to be a human carcinogen.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

Name	Category	Target organs
Cadmium (Non-pyrophoric)	Category 1	Not determined

Aspiration hazard

There is no data available.

Information on the likely routes of exposure	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects	<u>5</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy Eye contact Inhalation	 Adverse symptoms may include the following: pain or irritation watering redness Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

s and	also chronic effects from short and long term exposure
: No	hown significant effects or critical hazards.
: No	hown significant effects or critical hazards.
: No	hown significant effects or critical hazards.
: No	hown significant effects or critical hazards.
<u>cts</u>	
: No	hown significant effects or critical hazards.
: No	hown significant effects or critical hazards.
: No	hown significant effects or critical hazards.
: Sı	spected of damaging the unborn child.
: No	hown significant effects or critical hazards.
: Su	ispected of damaging fertility.
	: No : No : No : No : No : No : No : Su : No

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Inhalation (dusts and mists)	150 mg/L

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
p-Dodecylphenol	Acute LC50 140 µg/l	Fish - Salmo salar	96 hours
Cadmium (Non-pyrophoric)	Acute EC50 97 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute EC50 0.095 mg/L Marine water Acute EC50 200 μg/l Fresh water Acute EC50 13.5 μg/l Fresh water Acute LC50 0.072 μg/l Marine water Acute LC50 1 μg/l Fresh water	Algae - Ulva pertusa Aquatic plants - Lemna minor Daphnia - Daphnia magna - Neonate Crustaceans - Amphipoda - Adult Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours 4 days 48 hours 48 hours 96 hours
	Chronic NOEC 2 µg/l Fresh water	Algae - Parachlorella kessleri - Exponential growth phase	72 hours

	Chronic NOEC 0.02 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
Provide the second state and shall the			
Persistence and degradabili	ty		
There is no data available.			
Bioaccumulative potential			
Product/ingredient name	LogPow	BCF	Potential

Moh	 1	11	

p-Dodecylphenol

Soil/water partition	: There is no data available.
coefficient (Koc)	

7.91

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT	TDG	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-

high

Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

AERG : Not applicable.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations	: United States inventory (TSCA 8b): All components are listed or exempted.
	Clean Water Act (CWA) 307: Zinc Alkyldithiophosphate; Arsenic; Cadmium (Non- pyrophoric); Lead; Ethylbenzene; Naphthalene; Benzene
	Clean Water Act (CWA) 311: Ethylbenzene; Xylene; Naphthalene; Benzene
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	
Composition/information	on ingredients
No products were found.	
SARA 304 RQ	: Not applicable.
SARA 311/312	
Classification	: Immediate (acute) health hazard Delayed (chronic) health hazard
Composition/information	on ingredients

Name	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Zinc Alkyldithiophosphate	No.	No.	No.	Yes.	No.
Hydrogenated Base Oil (64742-55-8)	No.	No.	No.	Yes.	No.
p-Dodecylphenol	No.	No.	No.	Yes.	Yes.
Cadmium (Non-pyrophoric)	No.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements		68649-42-3 7439-92-1	1 - 5 0 - 0.1
Supplier notification	Zinc Alkyldithiophosphate	68649-42-3	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	1	None of the components are listed.
New York	1	None of the components are listed.
New Jersey	1	The following components are listed: Zinc Alkyldithiophosphate
Pennsylvania	:	None of the components are listed.

California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer. WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Ethylbenzene	Yes.	No.	41 μg/day (ingestion) 54 μg/day (inhalation)	No.
Benzene	Yes.	Yes.	6.4 μg/day (ingestion) 13 μg/day (inhalation)	24 μg/day (ingestion) 49 μg/day (inhalation)
Naphthalene	Yes.	No.	Yes.	No.
Cadmium (Non-pyrophoric)	Yes.	Yes.	0.05 μg/day (inhalation)	4.1 µg/day (ingestion)
2-Propenoic acid, ethyl ester	Yes.	Yes.	No.	No.
Ethyl acrylate	Yes.	No.	No.	No.
Arsenic	Yes.	No.	0.06 μg/day (inhalation)	No.
Lead	Yes.	Yes.	15 µg/day (ingestion)	Yes.

Canada

Canadian lists Canadian NPRI Canada inventory

- : The following components are listed: Zinc Alkyldithiophosphate
- **CEPA Toxic substances**
- : None of the components are listed. : All components are listed or exempted.

Section 16. Other information

History

	11/30/2016
:	01/01/2015
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:	AMSOIL INC.
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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.