



# SAFETY DATA SHEET

## Section 1. Identification

<b>Manufacturer</b> CHS Inc. P.O. Box 64089 Mail station 525 St. Paul, MN 55164-0089	<b>Transportation Emergency (CHEMTREC)</b> <b>Technical Information</b> <b>SDS Information</b>	<b>:</b> <b>:</b> <b>:</b>	<b>1-800-424-9300</b> <b>1-651-355-8443</b> <b>1-651-355-8445</b>
<b>Product name</b>	: Power Transmission Fluid (All grades)	<b>SDS no.</b>	: 0117-05181X
<b>Common name</b>	: Transmission Drive Oil SAE 10, 30, 50	<b>Revision date</b>	: 03/01/2023
<b>Chemical name</b>	: Lubricating oil.	<b>Chemical formula</b>	: Mixture
<b>Chemical family</b>	: Hydrocarbon.		
<b>Relevant identified uses of the substance or mixture and uses advised against</b>			
Not available.			

## Section 2. Hazards identification

<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Classification of the substance or mixture</b>	: SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3
<b>GHS label elements</b>	
<b>Hazard pictograms</b>	:
<b>Signal word</b>	: Danger
<b>Hazard statements</b>	: H317 - May cause an allergic skin reaction. H361 - Suspected of damaging fertility or the unborn child. H304 - May be fatal if swallowed and enters airways. H412 - Harmful to aquatic life with long lasting effects.
<b>Precautionary statements</b>	
<b>General</b>	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
<b>Prevention</b>	: 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. Avoid breathing vapor. Contaminated work clothing must not be allowed out of the workplace.
<b>Response</b>	: IF exposed or concerned: Get medical attention. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
<b>Storage</b>	: Store locked up.
<b>Disposal</b>	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazards not otherwise classified</b>	: None known.
<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health :</b> 3 * <b>Flammability :</b> 1 <b>Physical hazards :</b> 0
<b>National Fire Protection Association (U.S.A.)</b>	<b>Health :</b> 3 <b>Flammability :</b> 1 <b>Instability :</b> 0

### Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Mixture
<b>Chemical name</b>	: Lubricating oil.
<b>Other means of identification</b>	: Transmission Drive Oil SAE 10

Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	30 - 60	64742-54-7
Proprietary additive	10 - 30	-
Nonylphenol, branched, ethoxylated	0.1 - 1	68412-54-4
Phenol, dodecyl-, branched	0.1 - 1	121158-58-5

The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

**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

<b>Eye contact</b>	: If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15 minutes, occasionally lifting the lower and upper lids. Get medical attention.
<b>Inhalation</b>	: If person breathes in large amounts of material, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the person warm and at rest. Get medical attention as soon as possible.
<b>Skin contact</b>	: If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If irritation persists after washing, get medical attention immediately.
<b>Ingestion</b>	: If material has been swallowed, do not induce vomiting. Get medical attention immediately.

#### Most important symptoms/effects, acute and delayed

##### Potential acute health effects

<b>Eye contact</b>	: No known significant effects or critical hazards.
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Skin contact</b>	: May cause an allergic skin reaction.
<b>Ingestion</b>	: May be fatal if swallowed and enters airways.

##### Over-exposure signs/symptoms

<b>Eye contact</b>	: Adverse symptoms may include the following: pain or irritation, watering, redness.
<b>Inhalation</b>	: Adverse symptoms may include the following: respiratory tract irritation, coughing.
<b>Skin contact</b>	: Adverse symptoms may include the following: irritation, redness.
<b>Ingestion</b>	: No known significant effects or critical hazards.

#### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: No specific treatment.
<b>Protection of first-aiders</b>	: 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### Extinguishing media

<b>Suitable extinguishing media</b>	: Use water spray to cool fire exposed surfaces and to protect personnel. Foam, dry chemical or water spray (fog) to extinguish fire.
<b>Unsuitable extinguishing media</b>	: None known.
<b>Specific hazards arising from the chemical</b>	: Toxic fumes gases or vapors may evolve on burning.
<b>Hazardous thermal decomposition products</b>	: No specific data.
<b>Special protective actions for fire-fighters</b>	: When fighting fires wear full turnout gear and self contained breathing apparatus. Water may cause splattering. Material floats on water.
<b>Special protective equipment for fire-fighters</b>	: Not applicable.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

### Methods and materials for containment and cleaning up

- Spill** : Contain with dikes or absorbent to prevent migration to sewers/streams. Take up small spill with dry chemical absorbent; large spills may require pump or vacuum prior to absorbent. May require excavation of severely contaminated soil.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
- 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.
- Conditions for safe storage, including any incompatibilities** : Handling temperatures should not exceed 175°F (80°C). Do not store above the following temperature: 113°C (235.4°F). Odorous and toxic fumes may form from the decomposition of this product if stored at excessive temperatures for extended periods of time. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### United States

#### Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	<b>OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. <b>ACGIH TLV (United States, 3/2018).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction <b>NIOSH REL (United States, 10/2016).</b> TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist
Cadmium (Non-pyrophoric)	<b>OSHA PEL (United States, 5/2018).</b> TWA: 5 µg/m <sup>3</sup> , (as Cd) 8 hours. <b>OSHA PEL Z2 (United States, 2/2013).</b> TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Dust CEIL: 0.6 mg/m <sup>3</sup> Form: Dust TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Fertilizer and/or industrial use. CEIL: 0.3 mg/m <sup>3</sup> Form: Fertilizer and/or industrial use. <b>ACGIH TLV (United States, 3/2018).</b> TWA: 0.01 mg/m <sup>3</sup> , (as Cd) 8 hours. Form: Inhalable fraction TWA: 0.002 mg/m <sup>3</sup> , (as Cd) 8 hours. Form: Respirable fraction

- Appropriate engineering controls** : Use only with adequate ventilation.
- 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 measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Recommended: Splash goggles and a face shield, where splash hazard exists.
- Skin protection**
- Hand protection** : 4 - 8 hours (breakthrough time): Nitrile gloves.
- Body protection** : Recommended: Long sleeved coveralls.
- Other skin protection** : Recommended: Impervious boots.
- Respiratory protection** : If ventilation is inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P95 particulate filter.

## Section 9. Physical and chemical properties

<b>Appearance</b>		<b>Relative density</b>	: 0.89 to 0.91
<b>Physical state</b>	: Liquid.	<b>Evaporation rate</b>	: <1 (Ether. = 1)
<b>Color</b>	: Amber.	<b>Solubility</b>	: Insoluble in the following materials: cold water and hot water.
<b>Odor</b>	: Mild.	<b>Solubility in water</b>	: Insoluble
<b>Odor threshold</b>	: Not available.	<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>pH</b>	: Not available.	<b>Auto-ignition temperature</b>	: >260°C (>500°F)
<b>Melting point</b>	: Not available.	<b>Decomposition temperature</b>	: Not available.
<b>Boiling point</b>	: Not available.	<b>SADT</b>	: Not available.
<b>Flash point</b>	: Closed cup: >205°C (>401°F)	<b>Viscosity</b>	: Not available.
<b>Flammability</b>	: Not available.	<b>Vapor pressure</b>	: <0.13 kPa (<1 mm Hg) (68°F)
<b>Lower and upper explosive (flammable) limits</b>	: Not available.	<b>Vapor density</b>	: Not available.

## Section 10. Stability and reactivity

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

<b>Skin</b>	: Not hazardous (per manufacturer).
<b>Eyes</b>	: Not hazardous (per manufacturer).
<b>Respiratory</b>	: Not hazardous (per manufacturer).

#### Sensitization

<b>Skin</b>	: Not hazardous (per manufacturer).
<b>Respiratory</b>	: Not hazardous (per manufacturer).

#### Mutagenicity

There is no data available.

#### Carcinogenicity

##### Classification

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

#### Reproductive toxicity

There is no data available.

#### Teratogenicity

There is no data available.

**Specific target organ toxicity (single exposure)**

There is no data available.

**Specific target organ toxicity (repeated exposure)**

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

**Aspiration hazard**

Name	Result
Distillates (petroleum), hydrotreated heavy paraffinic	ASPIRATION HAZARD - Category 1

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

## Section 12. Ecological information

**Toxicity**

Product/ingredient name	Result	Species	Exposure
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	Algae - Ulva pertusa	96 hours
	Acute EC50 200 µg/L Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 13.5 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 0.072 µg/L Marine water	Crustaceans - Amphipoda - Adult	48 hours
	Acute LC50 1 µg/L Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	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

**Persistence and degradability**

There is no data available.

**Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Nonylphenol, branched, ethoxylated	5.39	37	low
Phenol, dodecyl-, branched	6.1	1601	high

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : There is no data available.

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

## Section 13. Disposal considerations

**Disposal methods** : 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.

## Section 14. Transport information

<b>DOT IDENTIFICATION NUMBER</b> Not regulated.	<b>DOT proper shipping name</b> Not applicable.
<b>DOT Hazard Class(es)</b> Not applicable.	<b>PG</b> Not applicable. <b>DOT-TDG EMER. RESPONSE GUIDE NO.</b> Not applicable

## Section 15. Regulatory information

**U.S. Federal regulations** :

- TSCA 4(a) final test rules:** 2-Butenedioic acid (E)-, di-C8-18-alkyl esters
- TSCA 6 proposed risk management:** Lead
- TSCA 8(a) PAIR:** Nonylphenol, branched, ethoxylated; Acetaldehyde; Naphthalene; 2-Butenedioic acid (E)-, di-C8-18-alkyl esters
- TSCA 8(a) CDR Exempt/Partial exemption:** Not determined
- United States inventory (TSCA 8b):** Not determined.
- Clean Water Act (CWA) 307:** Cadmium (Non-pyrophoric); Arsenic; Lead; Benzene; Ethylbenzene; Naphthalene
- Clean Water Act (CWA) 311:** Acetaldehyde; Benzene; Ethylbenzene; Naphthalene; Vinyl acetate

Clean Air Act Section 602 Class I Substances : Not listed      DEA List I Chemicals (Precursor Chemicals) : Not listed  
 Clean Air Act Section 602 Class II Substances : Not listed      DEA List II Chemicals (Essential Chemicals) : Not listed  
 Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Listed

**SARA 302/304**

**Composition/information on ingredients**

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Sulphur Dioxide	≤0.001	Yes.	500	-	500	-
Vinyl acetate	≤0.001	Yes.	1000	129	5000	644.8
Ethylene oxide	≤0.00001	Yes.	1000	-	10	-

**SARA 304 RQ** : 97847358.1 lbs / 44422700.6 kg [13039151.1 gal / 49358556.2 L]

**SARA 311/312**

**Hazard classifications** : SKIN SENSITIZATION - Category 1  
 TOXIC TO REPRODUCTION (Fertility) - Category 2  
 TOXIC TO REPRODUCTION (Unborn child) - Category 2  
 ASPIRATION HAZARD - Category 1

**Composition/information on ingredients**

Name	Classification
Distillates (petroleum), hydrotreated heavy paraffinic Proprietary additive Phenol, dodecyl-, branched	ASPIRATION HAZARD - Category 1 SKIN SENSITIZATION - Category 1 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Fertility) (oral) - Category 2 TOXIC TO REPRODUCTION (Unborn child) (oral) - Category 2

**SARA 313**

Product name	CAS number	%
Lead	7439-92-1	0 - 0.001

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** : The following components are listed: Distillates (petroleum), hydrotreated heavy paraffinic  
**New York** : None of the components are listed.  
**New Jersey** : None of the components are listed.  
**Pennsylvania** : None of the components are listed.  
**California Prop. 65**

**⚠ WARNING:** This product can expose you to chemicals including Lead, Benzene, Cadmium (Non-pyrophoric) and Ethylene oxide, which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Arsenic, 1,4-Dioxane, Acetaldehyde, Ethyl acrylate, Ethylbenzene and Naphthalene, which are known to the State of California to cause cancer, and Sulphur Dioxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Ingredient name	No significant risk level	Maximum acceptable dosage level
Sulphur Dioxide	-	Yes.
Lead	Yes.	Yes.
Arsenic	Yes.	-
Benzene	Yes.	Yes.
1,4-Dioxane	Yes.	-
Acetaldehyde	Yes.	-
Cadmium (Non-pyrophoric)	Yes.	Yes.
Ethyl acrylate	-	-
Ethylbenzene	Yes.	-
Naphthalene	Yes.	-
Ethylene oxide	Yes.	Yes.

**Section 16. Other information****Revision date** : 03/01/2023**Supersedes** : 12/10/2019**Revised Section(s)** : 1, 2, 3, 4, 8, 15, 16**Prepared by** : KMK Regulatory Services Inc.Notice to reader

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*OUR ENERGY COMES THROUGH®*

A BRAND OF The logo for CHS, consisting of the letters "CHS" in a serif font, enclosed within a thin, curved line that forms a partial circle around the letters.