



**CNH Tutela Transaxle Fluid SAE 80W-140**

MSDS Preparation Date (mm/dd/yyyy): 05/28/2013

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**MATERIAL SAFETY DATA SHEET**

**SECTION 1 - IDENTIFICATION**

**Product identifier** : **CNH Tutela Transaxle Fluid SAE 80W-140**

**Product Code(s)** : MS1317; MAT3510

**Product Use** : Lubricant - For transmission / axle combinations for heavy duty off-road equipment.

**Chemical Family** : Mixture.

**Supplier's name and address:**  
**Viscosity Oil Company**  
600-H Joliet Road  
Willowbrook, IL, U.S.A.  
60527

**Manufacturer's name and address:**  
Refer to Supplier

**Information Telephone #** : (630) 850-4000

**24 Hr. Emergency Tel #** : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

**SECTION 2 - HAZARDS IDENTIFICATION**

**Classification** : WHMIS classification:  
This product is not a WHMIS controlled product in Canada. It does not meet any of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR).

OSHA:  
This material is not classified as hazardous under OSHA regulations (29 CFR Part 1910.1200).

**Emergency Overview** : Light amber liquid. Petroleum odor.  
Fumes from heated product or mists, may irritate respiratory tract. Repeated or excessive exposure may cause slight skin and eye irritation. Toxic fumes are released in fire situation.

**POTENTIAL HEALTH EFFECTS:**

**Signs and symptoms of short-term (acute) exposure**

*Inhalation* : Fumes from heated product or mists, may irritate respiratory tract.

*Skin* : May cause mild transient irritation. The skin irritation hazard is based on evaluation of data for / testing of similar materials. Hydrocarbons injected into the skin under pressure can cause severe injury. Symptoms from pressure injection may include inflammation, swelling and severe, permanent tissue damage. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury. Exposure to hot material may cause thermal burns.

*Eyes* : May cause mild, short-lasting discomfort to eyes, based on testing of similar products.

*Ingestion* : Ingestion may cause irritation to mucous membranes. May have laxative effects. May cause nausea, vomiting, and diarrhea.

**Effects of long-term (chronic) exposure**

: Oils can block the skin pores causing an acne-like disorder. Overexposure to sprays or mists may cause chemical pneumonitis (inflammation of lung tissue).

**Carcinogenic status** : See TOXICOLOGICAL INFORMATION, Section 11.

**Additional health hazards** : See TOXICOLOGICAL INFORMATION, Section 11.

**Potential environmental effects**

: See ECOLOGICAL INFORMATION, Section 12.



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**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Ingredients</b>	<b>CAS #</b>	<b>Wt.%</b>
Base oil - unspecified	Mixture	1.00 - 5.00
Residual oils (petroleum), solvent refined	64742-01-4	10.00 - 30.00
Lubricating oils, petroleum, C15-30, hydrotreated neutral oil-based	72623-86-0	1.00 - 10.00
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	40.00 - 70.00
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	0.10 - 2.00

Note: The above listed 'Base oil - unspecified' mixture, can be a mixture of the following CAS #'s; 64741-89-5; 64741-96-4; 64741-97-5; 64742-52-5; 64742-53-6; 64742-54-7; 64742-55-8; 64742-57-0; 64742-62-7.

**SECTION 4 - FIRST AID MEASURES**

- Inhalation** : If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. When symptoms persist or in all cases of doubt seek medical advice.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. When symptoms persist or in all cases of doubt seek medical advice. If thermal burns are present: Treat all thermal burns with appropriate first aid measures for degree of burn. Cool skin rapidly with cold water, if material is hot. Subcutaneous injection may require surgical treatment. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.
- Eye contact** : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion** : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.
- Notes For Physician** : Treat symptomatically.

**SECTION 5 - FIRE FIGHTING MEASURES**

- Fire hazards/conditions of flammability** : Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapours are heavier than air and collect in confined and low-lying areas. Material will float on water and can be re-ignited at the water's surface.
- Flammability classification (OSHA 29 CFR 1910.1200)** : Combustible Liquid Class III B.
- Oxidizing properties** : None known.
- Explosion data: Sensitivity to mechanical impact / static discharge** : Not expected to be sensitive to mechanical impact or static discharge.
- Suitable extinguishing media** : Dry chemical; Carbon dioxide (CO<sub>2</sub>); Foam; water fog. Do not use a solid water stream as it may scatter and spread fire.
- Special fire-fighting procedures/equipment** : Move containers from fire area if safe to do so. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Water spray may be useful in cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes. Do not allow run-off from fire fighting to enter drains or water courses.



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**Hazardous combustion products**

: Carbon oxides; Hydrocarbons; Hydrogen sulfide; Phosphorus compounds; nitrogen oxides (NOx); Sulphur oxides.

**NFPA Rating**

0 - Minimal    1 - Slight    2 - Moderate    3 - Serious    4 - Severe  
 : Health: 1    Flammability: 1    Instability: 0    Special Hazards: None

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Personal precautions** : Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Keep people away from and upwind of spill/leak.

**Environmental precautions** : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

**Spill response/cleanup** : Ventilate area of release. Remove all sources of ignition. Stop spill or leak at source if safely possible. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Do not flush into surface water or sanitary sewer system. Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

**Prohibited materials** : None known or reported by the manufacturer.

**Special spill response procedures**

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).  
 US CERCLA Reportable quantity (RQ): None reported.

**SECTION 7 - HANDLING AND STORAGE**

**Safe Handling procedures** : Do not breathe fumes or mists. Use only in well-ventilated areas. Wear protective gloves/clothing and eye/face protection. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Keep away from incompatibles. Keep container tightly closed. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Wash thoroughly after handling.

**Storage requirements** : Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage. No smoking in the area. Keep away from incompatibles.

**Incompatible materials** : Oxidizing agents.

**Special packaging materials** : Always keep in containers made of the same materials as the supply container.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

<u>Exposure Limits</u>				
<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Base oil - unspecified	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	10 mg/m <sup>3</sup> (As 'Oil mist, mineral')	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	N/Av
Residual oils (petroleum), solvent refined	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	10 mg/m <sup>3</sup> (As 'Oil mist, mineral')	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	N/Av
Lubricating oils, petroleum, C15-30, hydrotreated neutral oil-based	N/Av	N/Av	N/Av	N/Av
Distillates (petroleum), solvent-refined heavy paraffinic	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	10 mg/m <sup>3</sup> (As 'Oil mist, mineral')	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	N/Av
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	N/Av	N/Av	N/Av	N/Av

**Ventilation and engineering measures**



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- : Use only in well-ventilated areas. Provide sufficient ventilation to keep vapour concentration below the given TLV and/or PEL.
- Respiratory protection** : Respiratory protection is required if the concentrations exceed the TLV. Use NIOSH/MSHA approved equipment. Advice should be sought from respiratory protection specialists.
- Skin protection** : Wear protective gloves. If handling hot material, use insulated protective clothing (boots, gloves, aprons, etc.). Advice should be sought from glove suppliers.
- Eye / face protection** : Safety goggles or glasses as appropriate for the job.
- Other protective equipment** : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. If handling hot material, use insulated protective clothing (boots, gloves, aprons, etc.). Ensure that eyewash stations and safety showers are close to the workstation location.
- General hygiene considerations** : Do not breathe fumes or mists. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	: Liquid.	<b>Appearance</b>	: Amber liquid.
<b>Odour</b>	: Petroleum odour.	<b>Odour threshold</b>	: N/Av
<b>pH</b>	: N/Av		
<b>Boiling point</b>	: > 232°C (450°F)	<b>Specific gravity</b>	: 0.88
<b>Melting/Freezing point</b>	: - 34°C (- 29.2°F)	<b>Coefficient of water/oil distribution</b>	: N/Av
<b>Vapour pressure (mmHg @ 20° C / 68° F)</b>	: N/Av	<b>Solubility in water</b>	: insoluble
<b>Vapour density (Air = 1)</b>	: 12	<b>Evaporation rate (n-Butyl acetate = 1)</b>	: N/Av
<b>Volatile organic Compounds (VOC's)</b>	: None.	<b>Volatiles (% by weight)</b>	: 0%
<b>Flash point</b>	: 227°C (441°F)		
<b>Flash point Method</b>	: Cleveland Open Cup	<b>Auto-ignition temperature</b>	: N/Av
<b>Lower flammable limit (% by vol.)</b>	: N/Av	<b>Upper flammable limit (% by vol.)</b>	: N/Av
<b>Flame Projection Length</b>	: N/Av	<b>Flashback observed</b>	: N/Av

**Section 10: Stability And Reactivity**

- Stability and reactivity** : Stable under normal conditions.
- Hazardous polymerization** : Hazardous polymerisation does not occur.
- Conditions to avoid** : Direct sources of heat. Avoid contact with incompatible materials.
- Materials To Avoid And Incompatibility** : Oxidizing agents.
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

- Target organs** : Eyes, skin, respiratory system and digestive system.
- Routes of exposure** : *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES
- Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.



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<u>Ingredients</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh. rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Base oil - unspecified	> 2180 mg/m <sup>3</sup>	> 5000 mg/kg	> 2000 mg/kg
Residual oils (petroleum), solvent refined	> 2180 mg/m <sup>3</sup>	> 5000 mg/kg	> 2000 mg/kg
Lubricating oils, petroleum, C15-30, hydrotreated neutral oil-based	> 2180 mg/m <sup>3</sup>	> 5000 mg/kg	> 2000 mg/kg
Distillates (petroleum), solvent-refined heavy paraffinic	2.18 mg/L/4H	> 5000 mg/kg	> 5000 mg/kg
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	N/Av	> 2000 mg/kg	> 2000 mg/kg

- Carcinogenic status** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive effects** : Not expected to be cause reproductive effects.
- Teratogenicity** : Not expected to be a teratogen.
- Mutagenicity** : Not expected to be mutagenic in humans.
- Epidemiology** : No information available.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Synergistic materials** : No information available.
- Irritancy** : Mild.
- other important hazards** : None known.
- Conditions aggravated by overexposure** : Pre-existing skin and respiratory disorders.

**SECTION 12 - ECOLOGICAL INFORMATION**

- Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
- Mobility** : The product itself has not been tested.
- Persistence** : The product itself has not been tested. None of the ingredients in this product are considered to be readily biodegradable, and this product is not soluble in water. Therefore, this product is expected to persist in the environment.
- Bioaccumulation potential** : The product itself has not been tested.
- Other Adverse Environmental effects** : None known.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

- Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.



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<b>SECTION 14: TRANSPORT INFORMATION</b>					
<b>Regulatory Information</b>	<b>UN Number</b>	<b>Shipping Name</b>	<b>Class</b>	<b>Packing Group</b>	<b>Label</b>
49CFR/DOT	None	Not regulated.	Not regulated	none	
<b>49CFR/DOT Additional information</b>	None.				
TDG	None	Not regulated.	Not regulated	none	
<b>TDG Additional information</b>	None.				
IMDG	None	Not regulated.	Not regulated	none	
<b>IMDG Additional information</b>	None.				

**SECTION 15 - REGULATORY INFORMATION**

**US Federal Information:**

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: None. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

**US State Right to Know Laws:**

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

**International Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: This product is not a WHMIS controlled product in Canada. Refer to Section 2 for a WHMIS Classification for this product.

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.**



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**SECTION 16 - OTHER INFORMATION**

**HMIS Rating** : \* - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe  
*Health:* 1 *Flammability:* 1 *Reactivity:* 0

**Legend** : ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
CFR: Code of Federal Regulations  
cSt: Centistokes  
DOT: Department of Transportation  
EPA: Environmental Protection Agency  
HMIS: Hazardous Materials Identification System  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IMDG: International Maritime Dangerous Goods  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
MSHA: Mine Safety and Health Administration  
N/Av: Not Applicable  
N/Av: Not Available  
NFPA: National Fire Protection Association  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
RCRA: Resource Conservation and Recovery Act  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

**References** : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2008.  
2. International Agency for Research on Cancer Monographs, searched 2009.  
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2009 (Chempendium, HSDB, RTECs).  
4. Material Safety Data Sheet from manufacturer.  
5. US EPA Title III List of Lists - October 2006 version.  
6. California Proposition 65 List - September 12, 2008 version.

<p><b>Prepared for:</b> Viscosity Oil Company 600-H Joliet Road, Willowbrook, IL, U.S.A., 60527 Telephone: 001-630-850-4000 <a href="http://www.viscosityoil.com">http://www.viscosityoil.com</a> Please direct all enquiries to Viscosity Oil.</p>	
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**DISCLAIMER OF LIABILITY**

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