



SAFETY DATA SHEET

1. Identification

Product identifier CNH Tutela Transaxle Fluid SAE 80W-140
Other means of identification Not available.
Recommended use Lubricant
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Viscosity Oil Company
Address 600-H Joliet Road
Willowbrook, IL 60527
United States
Telephone General Information 630-850-4000
E-mail Not available.
Emergency phone number Chemtrec (Within US) 1-800-424-9300
Chemtrec (Outside US) 703-527-3887

Supplier Refer to Manufacturer

2. Hazard(s) identification

Physical hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Health hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Environmental hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

OSHA defined hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Label elements

Hazard symbol None.
Signal word None.
Hazard statement Not available.
Precautionary statement
Prevention Not available.
Response Not available.
Storage Not available.
Disposal Not available.

Hazard(s) not otherwise classified (HNOC) No OSHA defined hazard classes.
Other hazards which do not result in classification: Repeated or excessive exposure may cause slight skin and eye irritation. Hydrocarbons injected into the skin under pressure can cause severe injury. Inhalation of mist or vapor will cause irritation of mucous membranes in nose and throat leading to coughing, choking, headache and dizziness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Oils can block the skin pores causing an acne-like disorder. Overexposure to sprays and mist may cause chemical pneumonitis (inflammation of lung tissue).

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum) solvent-refined heavy paraffinic	SEVERELY SOLVENT-REFINED HEAVY PARAFFINIC DISTILLATE DISTILLATES (PETROLEUM)	64741-88-4	40 - 70
Residual Oils (petroleum), Solvent-refined	SOLVENT REFINED RESIDUUM	64742-01-4	10 - 30

Chemical name	Common name and synonyms	CAS number	%
Lubricating Oils (petroleum), (c=15-30), Hydrotreated Neutral Oil-based	Paraffinic hydrocarbons	72623-86-0	1 - 10
Base oil - unspecified	Not Available	Proprietary	1 - 5
Zinc, Dithiophosphate Di-c1-14-alkyl Esters	PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS.	68649-42-3	0.1 - 2

The exact concentrations of the above listed chemicals are being withheld as a trade secret as allowed by 29CFR1910.1200.

Composition comments Note: The above listed 'Base oil - unspecified' 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.

4. First-aid measures

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. When symptoms persist or in all cases of doubt, seek medical advice.

Skin contact

Immediately take off 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 measure for degree of burn. Cool skin rapidly with cold water after contact with molten material. 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 a victim who is unconscious or is having convulsions. When symptoms persist or in all cases of doubt, seek medical advice.

Most important symptoms/effects, acute and delayed

Repeated or excessive exposure may cause slight skin and eye irritation. Symptoms may include stinging and tearing. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. 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.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapors are heavier than air and may spread along floors. Material will float on water and can be re-ignited at the water's surface.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

Move containers from fire area if you can do so without risk. Firefighters should wear full protective clothing including self contained breathing apparatus. Use water spray to cool unopened containers. Do not scatter spilled material with high pressure water streams. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

No unusual fire or explosion hazards noted.

Hazardous combustion products

Carbon oxides. Hydrocarbons. Phosphorus oxides. Nitrogen oxides (NO_x). Sulphur oxides. Other irritating fumes and smoke.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment and clothing during clean-up. See Section 8 of the SDS for Personal Protective Equipment. Restrict access to area until completion of clean-up. Keep people away from and upwind of spill/leak.

Methods and materials for containment and cleaning up

Ventilate the contaminated area. Remove sources of ignition. Stop leak if you can do so without risk. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). For waste 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. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not breathe gas, fumes, or vapor. Use only with adequate ventilation. Wear chemically resistant protective equipment during handling. Avoid contact with eyes, skin, and clothing. Keep away from heat and sources of ignition. Keep away from incompatibles. Empty containers retain residue and can be dangerous. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

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. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

U.S. - OSHA

Components

Zinc, Dithiophosphate
Di-c1-14-alkyl Esters (CAS
68649-42-3)

Type

TWA

Value

Form

None

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components

Distillates (petroleum)
solvent-refined heavy
paraffinic (CAS 64741-88-4)

Type

PEL

Value

5 mg/m³

Form

Mist.

2000 mg/m³
500 ppm

US. ACGIH Threshold Limit Values

Components

Distillates (petroleum)
solvent-refined heavy
paraffinic (CAS 64741-88-4)

Type

TWA

Value

5 mg/m³

Form

Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components

Distillates (petroleum)
solvent-refined heavy
paraffinic (CAS 64741-88-4)

Type

STEL

Value

10 mg/m³

Form

Mist.

TWA

5 mg/m³

Mist.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety goggles or glasses as appropriate for the job. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Advice should be sought from glove suppliers.

Other

For molten product, use any type rubber thermal insulating gloves and other clothing as necessary to protect from thermal burns. Use of an impervious apron is recommended. Use of impervious boots is recommended.

Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Advice should be sought from respiratory protection specialists.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Amber.
Odor	Petroleum-like
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	-29.2 °F (-34 °C) (pour point)
Initial boiling point and boiling range	> 449.6 °F (> 232 °C)
Flash point	440.6 °F (227.0 °C) Cleveland Open Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 1 mm Hg
Vapor density	12
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Kinematic viscosity	220 cSt
Kinematic viscosity temperature	104 °F (40 °C)
Percent volatile	0 %
Specific gravity	0.88

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials. Direct sources of heat. Do not use in areas without adequate ventilation.
Incompatible materials	Strong oxidizing agents.

Hazardous decomposition products

None known, refer to hazardous combustion products in Section 5.

11. Toxicological information

Information on likely routes of exposure

Ingestion	May cause discomfort if swallowed.
Inhalation	Mild respiratory irritant.
Skin contact	Direct skin contact may cause slight or mild, transient irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Repeated or excessive exposure may cause slight skin and eye irritation. Symptoms may include stinging and tearing. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. 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.

Information on toxicological effects

Acute toxicity The below product data is the calculated ATE values for this mixture. Individual ingredient component data appears below the product mixture ATE values.

Product	Species	Test Results
CNH Tutela Transaxle Fluid SAE 80W-140 (CAS Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 4098 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 2.18 mg/l, 4 hours
<i>Oral</i>		
LD50	Rat	> 5263 mg/kg
Components		
Species		
Test Results		
Base oil - unspecified (CAS Proprietary)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	No data in literature
<i>Inhalation</i>		
LC50	Rat	No data in literature
<i>Oral</i>		
LD50	Rat	No data in literature
Distillates (petroleum) solvent-refined heavy paraffinic (CAS 64741-88-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 2.19 mg/l, 4 hours
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Lubricating Oils (petroleum), (c=15-30), Hydrotreated Neutral Oil-based (CAS 72623-86-0)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	2.18 mg/l, 4 Hours (Mist)

Components	Species	Test Results
<i>Oral</i> LD50	Rat	> 5000 mg/kg
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)		
Acute		
<i>Dermal</i> LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i> LC50	Rat	>= 2.18 mg/l, 4 Hours
<i>Oral</i> LD50	Rat	> 5000 mg/kg
Zinc, Dithiophosphate Di-c1-14-alkyl Esters (CAS 68649-42-3)		
Acute		
<i>Dermal</i> LC50	Rabbit	No data in literature
<i>Inhalation</i> LC50	Rat	No data in literature
<i>Oral</i> LD50	Rat	26100 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Direct skin contact may cause slight or mild, transient irritation. Hydrocarbons injected into the skin under pressure can cause severe injury. Thermal burn hazard - contact with hot material may cause thermal burns.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization This product is not expected to cause respiratory sensitization.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Distillates (petroleum) solvent-refined heavy paraffinic (CAS 64741-88-4) Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified as a specific target organ toxicity -single exposure.

Specific target organ toxicity - repeated exposure Not classified as a specific target organ toxicity -repeated exposure.

Chronic effects Oils can block the skin pores causing an acne-like disorder. Overexposure to sprays and mist may cause chemical pneumonitis (inflammation of lung tissue).

Aspiration toxicity Not expected to be an aspiration hazard.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Distillates (petroleum) solvent-refined heavy paraffinic (CAS 64741-88-4)		
Aquatic		
<i>Acute</i> Crustacea	EC50 Water flea (Daphnia magna)	> 1000 mg/l, 48 hours

Components		Species	Test Results
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	> 100 mg/l, 96 hours
<i>Chronic</i>			
Algae	NOEC	Green Algae (<i>Pseudokirchneriella subcapitata</i>)	> 100 mg/l, 72 hours
Crustacea	NOEC	Water flea (<i>Daphnia magna</i>)	10 mg/l, 21 days
Lubricating Oils (petroleum), (c=15-30), Hydrotreated Neutral Oil-based (CAS 72623-86-0)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	> 100 mg/l, 96 hours
<i>Chronic</i>			
Algae	NOEC	Green Algae (<i>Pseudokirchneriella subcapitata</i>)	> 100 mg/l, 72 hours
Crustacea	NOEC	Water flea (<i>Daphnia magna</i>)	10 mg/l, 21 days
Zinc, Dithiophosphate Di-c1-14-alkyl Esters (CAS 68649-42-3)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Green algae (<i>Selenastrum capricornutum</i>)	1 - 5 mg/l, 96 hours
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	1 - 1.5 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	1 - 5 mg/l, 96 hours
<i>Chronic</i>			
Algae	NOEC	Green algae (<i>Selenastrum capricornutum</i>)	1 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This substance/mixture is not intended to be transported in bulk.

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Zinc, Dithiophosphate Di-c1-14-alkyl Esters (CAS 68649-42-3) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Zinc, Dithiophosphate Di-c1-14-alkyl Esters	68649-42-3	0.1 - 2

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Distillates (petroleum) solvent-refined heavy paraffinic (CAS 64741-88-4)

US. New Jersey Worker and Community Right-to-Know Act

Zinc, Dithiophosphate Di-c1-14-alkyl Esters (CAS 68649-42-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Zinc, Dithiophosphate Di-c1-14-alkyl Esters (CAS 68649-42-3)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 06-25-2014

Version # 01

List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Services
CEPA: Canadian Environmental Protection Act
CPR: Controlled Products Regulation
CSA: Canadian Standards Association
DOT: Department of Transportation
DSL: Domestic Substance List
HMIS: Hazardous Materials Identification System
HPA: Hazardous Protection Act
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Dangerous Goods
LC: Lethal Concentration
LD: Lethal Dose
NFPA: National Fire Protection Association
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co operation and Development
OEL: National occupational exposure limits
OSHA: Occupational Safety and Health Administration
PPE: Personal Protective Equipment
RCRA: Resource Conservation and Recovery Act
RQ: Reportable Quantity
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
WEL: Workplace Exposure Limit

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