



Viscosity Oil Company  
600-H Joliet Road  
Willowbrook, IL, U.S.A., 60527  
Telephone: 001-630-850-4000

CNH Tutela Axle Oil Additive

Not available.

MSDS Preparation Date (mm/dd/yyyy): 07/16/2013

Page 1 of 9

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - IDENTIFICATION

**Product identifier** : **CNH Tutela Axle Oil Additive**

**Product Code(s)** : L-6693A

**Product Use** : HOB Additive

**Chemical Family** : Mixture.

**Supplier's name and address:**

**Manufacturer's name and address:**

**Viscosity Oil Company**

**Refer to Supplier**

600-H Joliet Road  
Willowbrook, IL, U.S.A.  
60527

**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 information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS Classification:  
Class D2B (Materials Causing Other Toxic Effects, Toxic Material)

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification  
Acute Health Hazard

**Emergency Overview** : Dark liquid. Petroleum odor.  
Fumes from heated product or mists may irritate respiratory tract. May cause eye and skin irritation. May cause skin sensitization. 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 skin irritation. Oils can block the skin pores causing an acne-like disorder. 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 eye irritation.

*Ingestion* : May have laxative effects. May cause nausea, vomiting, and diarrhea.

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

: Prolonged or repeated skin contact may cause irritation, defatting or dermatitis (rash). 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** : Possible sensitizer. See TOXICOLOGICAL INFORMATION, Section 11.

**Potential environmental effects** : See ECOLOGICAL INFORMATION, Section 12.



CNH Tutela Axle Oil Additive

Not available.

MSDS Preparation Date (mm/dd/yyyy): 07/16/2013

Page 2 of 9

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredients</b>	<b>CAS #</b>	<b>Wt. %</b>
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	20.00 - 40.00
Paraffinic hydrocarbons	72623-86-0	0.10 - 1.00
Solvent-refined heavy paraffinic petroleum distillates	64741-88-4	20.00 - 35.00
Calcium long chain alkaryl sulfonate	722503-68-6	20.00 - 40.00

### 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)

- : Non-flammable.

#### 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.



CNH Tutela Axle Oil Additive

Not available.

MSDS Preparation Date (mm/dd/yyyy): 07/16/2013

Page 3 of 9

**Hazardous combustion products**

: Carbon oxides; Hydrocarbons; Phosphorus compounds; Nitrogen oxides (NOx); Sulphur oxides.

**NFPA Rating**

0 - Minimal    1 - Slight    2 - Moderate    3 - Serious    4 - Severe  
 : *Health:* 2    *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: 1-800-424-8802).  
 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**

Exposure Limits

<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
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
Paraffinic hydrocarbons	N/Av	N/Av	N/Av	N/Av
Solvent-refined heavy paraffinic petroleum distillates	5 mg/m <sup>3</sup> (inhalable fraction, mineral oil mists)	N/Av	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	N/Av
Calcium long chain alkaryl sulfonate	N/Av	N/Av	N/Av	N/Av

**Ventilation and engineering measures**



**CNH Tutela Axle Oil Additive**

Not available.

MSDS Preparation Date (mm/dd/yyyy): 07/16/2013

Page 4 of 9

- : 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>	: Dark liquid.
<b>Odour</b>	: Petroleum odour.	<b>Odour threshold</b>	: N/Av
<b>pH</b>	: N/Av		
<b>Boiling point</b>	: N/Av	<b>Specific gravity</b>	: 0.92
<b>Melting/Freezing point</b>	: N/Av	<b>Coefficient of water/oil distribution</b>	: N/Av
<b>Vapour pressure (mmHg @ 20° C / 68° F)</b>	: < 0.12 mm Hg	<b>Solubility in water</b>	: 0.3%
<b>Vapour density (Air = 1)</b>	: > 12	<b>Evaporation rate (n-Butyl acetate = 1)</b>	: N/Av
<b>Volatile organic Compounds (VOC's)</b>	: N/Av	<b>Volatiles (% by weight)</b>	: N/Av
<b>Flash point</b>	: 204.4°C (400°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
<b>Viscosity</b>	: 60 cSt at 40°C (104°F)		
<b>Absolute pressure of container</b>	: N/Av		

**SECTION 10: STABILITY AND REACTIVITY**

- Stability and reactivity** : Stable under normal conditions.
- Hazardous polymerization** : Hazardous polymerization 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



**CNH Tutela Axle Oil Additive**

Not available.

MSDS Preparation Date (mm/dd/yyyy): 07/16/2013

Page 5 of 9

**Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<b>Ingredients</b>	<b>LC<sub>50</sub>(4hr)</b> <b>inh, rat</b>	<b>LD<sub>50</sub></b>	
		<b>(Oral, rat)</b>	<b>(Rabbit, dermal)</b>
Distillates (petroleum), solvent-refined heavy paraffinic	N/Av	> 5000 mg/kg	> 5000 mg/kg
Paraffinic hydrocarbons	>2180 mg/m <sup>3</sup>	>5000 mg/kg	>2000 mg/kg
Solvent-refined heavy paraffinic petroleum distillates	N/Av	>5000 mg/kg	>5000 mg/kg
Calcium long chain alkaryl sulfonate	N/Av	N/Av	N/Av

- Carcinogenic status** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.  
**Reproductive effects** : Not expected to 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** : May cause an allergic skin reaction (e.g. swelling, rash and eczema). No data available to indicate product or components may be respiratory sensitizers.  
**Synergistic materials** : No information available.  
**Irritancy** : May be mildly irritating to eyes and skin.  
**other important hazards** : None known.  
**Conditions aggravated by overexposure** : Pre-existing skin and respiratory disorders.

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity** : See the following tables for individual ingredient ecotoxicity data.

**Ecotoxicity data:**

<b>Ingredients</b>	<b>CAS No</b>	<b>Toxicity to Fish</b>		
		<b>LC50 / 96h</b>	<b>NOEC / 21 day</b>	<b>M Factor</b>
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	>5000 mg/L (Rainbow trout)	N/Av	N/Av
Paraffinic hydrocarbons	72623-86-0	96 Hr LC50 Oncorhynchus mykiss: >5000 mg/L	N/Av	
Solvent-refined heavy paraffinic petroleum distillates	64741-88-4	No information available.	N/Av	None.
Calcium long chain alkaryl sulfonate	722503-68-6	N/Av	N/Av	



CNH Tutela Axle Oil Additive

Not available.

MSDS Preparation Date (mm/dd/yyyy): 07/16/2013

Page 6 of 9

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	>1000 mg/L (Water flea)	N/Av	N/Ap
Paraffinic hydrocarbons	72623-86-0	48 Hr EC50 Daphnia magna: >1000 mg/L	N/Av	
Solvent-refined heavy paraffinic petroleum distillates	64741-88-4	No information available.	No information available.	None.
Calcium long chain alkaryl sulfonate	722503-68-6	N/Av	N/Av	

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	> 1000 mg/L/96hr (Green algae)	N/Av	N/Ap
Paraffinic hydrocarbons	72623-86-0	N/Av	N/Av	
Solvent-refined heavy paraffinic petroleum distillates	64741-88-4	No information available.	No information available.	
Calcium long chain alkaryl sulfonate	722503-68-6	N/Av	N/Av	

- 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.
- 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.

### SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
49CFR/DOT	None	Not regulated.	Not regulated	none	



**CNH Tutela Axle Oil Additive**

Not available.

MSDS Preparation Date (mm/dd/yyyy): 07/16/2013

Page 7 of 9

<b>49CFR/DOT Additional information</b>	None.				
<b>TDG</b>	None	Not regulated.	Not regulated	none	
<b>TDG Additional information</b>	None.				

**SECTION 15 - REGULATORY INFORMATION**

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372. Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	Yes	N/Ap	N/Av	No	N/Ap
Paraffinic hydrocarbons	72623-86-0	Yes	N/Ap	N/Av	No	N/Ap
Solvent-refined heavy paraffinic petroleum distillates	64741-88-4	Yes	N/Ap	N/Av	No	NS
Calcium long chain alkaryl sulfonate	722503-68-6	NL	N/Ap	N/Ap	No	N/Ap

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: None reported. 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.

**US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	No	N/Ap	No	No	No	No	No	No
Paraffinic hydrocarbons	72623-86-0	No	N/Ap	No	No	No	No	No	No
Solvent-refined heavy paraffinic petroleum distillates	64741-88-4	No	N/Ap	No	No	No	No	No	No
Calcium long chain alkaryl sulfonate	722503-68-6	No	N/Ap	No	No	No	No	No	No

**Canadian Information:**



**CNH Tutela Axle Oil Additive**

Not available.

MSDS Preparation Date (mm/dd/yyyy): 07/16/2013

Page 8 of 9

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

WHMIS information: 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.**

**International Information:**

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	265-090-8	Present	Present	(9)-1692	KE-12614	Present	Not listed
Paraffinic hydrocarbons	72623-86-0	276-737-9	Present	Present	(9)-1692	KE-22620	Present	Not listed
Solvent-refined heavy paraffinic petroleum distillates	64741-88-4	265-090-8	Present	Present	(9)-1692	KE-12614	Present	
Calcium long chain alkaryl sulfonate	722503-68-6	Not listed	Present	Not listed	Not listed	Not listed	Not listed	Not listed

**SECTION 16 - OTHER INFORMATION**

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





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**CNH Tutela Axle Oil Additive**

Not available.



MSDS Preparation Date (mm/dd/yyyy): 07/16/2013

Page 9 of 9

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 2013.
- 2. International Agency for Research on Cancer Monographs, searched 2013.
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases (Chempendium, HSDB and RTECs). - 2013.
- 4. US EPA Title III List of Lists - October 2012.
- 5. California Proposition 65 List - 5 July 2013.

<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>	
<p><b>Prepared by:</b> ICC The Compliance Center Inc. <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

**DISCLAIMER OF LIABILITY**

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