



MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product identifier : **CNH Tutela Unitek SAE 10W-40**

Product Code(s) : None reported.

Product Use : Lubricant

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 information: This product is not a WHMIS controlled product in Canada.

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

Emergency Overview : Clear amber liquid. Petroleum odor.
 Fumes from heated product or mists may irritate respiratory tract. May cause mild eye irritation. May cause mild skin 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 skin 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. Exposure to hot material may cause thermal burns.
- Eyes* : May cause mild, short-lasting discomfort to eyes, based on testing of similar products.
- Ingestion* : 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.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	CAS #	Wt.%
Hydrotreated heavy paraffinic distillate	64742-54-7	80.00 - 100.00

SECTION 4 - FIRST AID MEASURES



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- 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** : Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Do not induce vomiting, unless directed to do so by qualified medical personnel. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. 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. May burn if heated at temperatures higher than the flash point. 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 (CO₂); Foam; water fog. Do not use a solid water stream as it may scatter and spread fire.

Special fire-fighting procedures/equipment

- : Evacuate personnel to safe areas. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Fight fires from a safe distance. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Move uninvolved containers from fire area if it can be done so without risk. Cool closed containers exposed to fire with water spray. 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.

Hazardous combustion products

- : Carbon oxides; Hydrocarbons; Phosphorus compounds; nitrogen oxides (NO_x); Sulphur oxides.

NFPA Rating

- | | | | | |
|--|------------|--------------|-------------|------------|
| 0 - Minimal | 1 - Slight | 2 - Moderate | 3 - Serious | 4 - Severe |
| : <i>Health:</i> 1 <i>Flammability:</i> 1 <i>Instability:</i> 0 <i>Special Hazards:</i> None | | | | |

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions

- : Ensure clean-up is conducted by trained personnel only. Keep all other personnel upwind and away from the spill/release. All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Contaminated surfaces will be extremely slippery. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. 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.



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Spill response/cleanup : LAND SPILL: Evacuate personnel to safe areas. Restrict access to area until completion of clean-up. Ventilate area of release. Remove all sources of ignition. Stop spill or leak at source if safely possible. Caution! Spilled material may be slippery. 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.

WATER SPILL: Use containment booms and remove from the surface by skimming or with suitable absorbents when conditions permit. Seek the advice of a specialist before using dispersants. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

Prohibited materials : Do not use combustible materials, such as sawdust, as absorbent material.

Special spill response procedures

: In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887.
 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.
 This product is an oil as defined under Section 311 of EPA's Clean Water Act (CWA). Spills into or leading to surface waters that cause a sheen must be reported to the National Response Center, 1-800-424-8802.

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. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. 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>
Hydrotreated heavy paraffinic distillate	5 mg/m ³ (As 'Oil mist, mineral')	10 mg/m ³ (As 'Oil mist, mineral')	5 mg/m ³ (As 'Oil mist, mineral')	N/Av

There is no established exposure limits for this product. The above exposure limits are provided for safety reasons.

Ventilation and engineering measures

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

Respiratory protection

: Respiratory protection is required if the concentrations exceed the TLV. Use NIOSH/MSHA approved equipment. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. A self contained breathing apparatus should be used in emergency situations or instances where exposure levels are not known. 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.



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- 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. Other equipment may be required depending on workplace standards.
- General hygiene considerations** : Handle in accordance with good industrial hygiene and safety practice. Do not breathe fumes or mists. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|---|--|
| Physical state : Liquid. | Appearance : Clear amber liquid. |
| Odour : Petroleum odour. | Odour threshold : N/Av |
| pH : N/Av | |
| Boiling point : 335 - 507°C (635 - 945°F) | Specific gravity : 0.88 - 0.92 |
| Melting/Freezing point : Pour point >-17°C (> 0°F) | Coefficient of water/oil distribution : >7estimated |
| Vapour pressure (mmHg @ 20° C / 68° F) : <0.75 | Solubility in water : negligible |
| Vapour density (Air = 1) : >5 | Evaporation rate (n-Butyl acetate = 1) : 1000 times Slower than n-butyl acetate |
| Volatile organic Compounds (VOC's) : N/Av | Volatiles (% by weight) : Nil |
| Flash point : 177°C (>350°F) | |
| Flash point Method : Cleveland Open Cup | Auto-ignition temperature : >290°C (>554°F) |
| Lower flammable limit (% by vol.) : N/Av | Upper flammable limit (% by vol.) : N/Av |
| Flame Projection Length : N/Av | Flashback observed : N/Av |

Section 10: Stability And Reactivity

- Stability and reactivity** : Stable at ambient temperatures and pressures.
- Hazardous polymerization** : Will 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.

Ingredients	LC₅₀(4hr)		LD₅₀	
	inh. rat	(Oral, rat)	(Rabbit, dermal)	
Hydrotreated heavy paraffinic distillate	>5.0mg/L	>15000 mg/kg	>5000 mg/kg	



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- Carcinogenic status** : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.
- 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** : May cause mild eye irritation. May cause mild skin irritation.
- 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. Hydrotreated heavy paraffinic distillate (CAS 64742-54-7):
LC50/96h/Oncorhynchus mykiss (rainbow trout) = >5000mg/L
EC50/48h/Daphnia magna (Water flea) = >1000mg/L
- Mobility** : The product itself has not been tested.
- Persistence** : The product itself has not been tested.
- Bioaccumulation potential** : The product itself has not been tested.
- Other Adverse Environmental effects** : This material is not expected to present any environmental problems other than those associated with oil spills. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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** : Reuse or recycling should be given priority over disposal. If the material is unsuitable for recycling or reclamation, dispose of in accordance with federal, provincial and local hazardous waste laws. Contact your local, state 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.

SECTION 14: TRANSPORT INFORMATION

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



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TDG	None	Not regulated.	Not regulated	none	
TDG Additional information	None.				
IMDG	None	Not regulated.	Not regulated	none	
IMDG Additional information	None.				

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

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

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:
 Acute Health Hazard.

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.

Other U.S. State "Right to Know" Lists: None of the components of this product are specifically listed on any State 'Right to Know' lists.

International Information:

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.

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



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- 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
- TLV: Threshold Limit Values
- TWA: Time Weighted Average
- WHMIS: Workplace Hazardous Materials Identification System

References

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

<p><u>Prepared for:</u> Viscosity Oil Company 600-H Joliet Road, Willowbrook, IL, U.S.A., 60527 Telephone: 001-630-850-4000 http://www.viscosityoil.com Please direct all enquiries to Viscosity Oil.</p>	
<p><u>Prepared by:</u> ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p>	

DISCLAIMER OF LIABILITY

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