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# MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICA	ТІС	DN
Product identifier	:	Case Akcela HTO Additive
Product Code(s)	:	None reported.
Product Use	:	Additive
Chemical Family	:	Mixture.
Supplier's name and address:		Manufacturer's name and address:
Viscosity Oil Company 600-H Joliet Road Willowbrook, IL, U.S.A. 60527		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 ID	EN	TIFICATION
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)
Emergency Overview	:	OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Acute Health Hazard Light amber liquid. Petroleum odor. Fumes from heated product or mists may irritate respiratory tract. Causes skin and eye irritation. May be harmful or fatal if swallowed. Aspiration may occur during swallowing or vomiting, resulting in lung injury. 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.	
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- Skin : May cause mild to moderate 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 to moderate irritation.

*Ingestion* : May have laxative effects. May cause nausea, vomiting, and diarrhea. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

#### 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). Prolonged or repeated skin contact may cause irritation, defatting or dermatitis (rash).
		repeated skin contact may cause initiation, delating of demains (rash).
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

Ingredients	CAS #	Wt.%
Hydrotreated light naphthenic distillate	64742-53-6	30.00 - 60.00
Zinc alkyldithiophosphate	Proprietary	40.00 - 70.00

## **SECTION 4 - FIRST AID MEASURES**

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

SECTION 5 - FIRE FIGHTING MEASU	RES

Fire hazards/conditions of flam	nability
	: Not flammable under normal conditions of use. May be ignited if heated to extremely high temperatures. 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 (OSF	łA 29 CFR 1910.1200)
	: Combustible Liquid Class III B.
Oxidizing properties	: None known.
Explosion data: Sensitivity to me	echanical 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
	: 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.
Hazardous combustion products	S
	<ul> <li>Carbon oxides; Hydrocarbons; Phosphorus compounds; nitrogen oxides (NOx); Sulphur oxides.</li> </ul>
NFPA Rating	0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
	: Health: 1 Flammability: 1 Instability: 0 Special Hazards: None



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SECTION 6 - ACCIDENTA	AL 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 procedu	res
	<ul> <li>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).</li> <li>US CERCLA Reportable quantity (RQ): None reported.</li> </ul>
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	<ul> <li>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.</li> </ul>
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

	ACGIH	I TLV	OSHA	PEL
Ingredients	TWA	<u>STEL</u>	PEL	STEL
Hydrotreated light naphthenic distillate	5 mg/m³ (As 'Oil mist, mineral')	N/Av	5 mg/m³ (As 'Oil mist, mineral')	N/Av
Zinc alkyldithiophosphate	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 concentration below the given TLV and/or PEL.	/apour
Respiratory protection	Respiratory protection is required if the concentrations exceed the TLV NIOSH/MSHA approved equipment. Advice should be sought from response to the specialists.	
Skin protection	Near protective gloves. If handling hot material, use insulated protectiv (boots, gloves, aprons, etc.). Advice should be sought from glove supp	0
Eye / face protection	Safety goggles or glasses as appropriate for the job.	
Other protective equipment	Where extensive exposure to product is possible, use resistant coveral poots to prevent contact. If handling hot material, use insulated protecting (boots, gloves, aprons, etc.). Ensure that eyewash stations and safety sclose to the workstation location.	ve clothing



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: 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 PROPER	RTIES	
Physical state	: Liquid.	Appearance	: Light amber liquid.
Odour	: Petroleum odor.	Odour threshold	: N/Av
рН	: N/Ap		
Boiling point	: N/Av	Specific gravity	: 1.01
Melting/Freezing point	: N/Av	Coefficient of water/oil dist	ribution
0 01			: N/Av
/apour pressure (mmHg @ 20'	° C / 68° F)	Solubility in water	: insoluble
apear procedie (mining @ 20	: <1 mmHg @ 20°C		
/apour density (Air = 1)	: N/Av	Evaporation rate (n-Butyl a	cetate = 1)
			: N/Av
/olatile organic Compounds (\	/OC's)	Volatiles (% by weight)	: None.
	: N/Av		
Flash point	: 127°C (260°F)		
Flash point Method	: Cleveland Open Cup	Auto-ignition temperature	: N/Av
ower flammable limit (% by vo	ol.)	Upper flammable limit (% by	vol.)
	: N/Av		: N/Av
Flame Projection Length	: N/Ap	Flashback observed	: N/Ap
Section 10: Stability And R	eactivity		
Stability and reactivity	: Stable under normal conc	litions.	
lazardous polymerization	: Hazardous polymerisatior	n does not occur.	
Conditions to avoid	: Direct sources of heat. Av	void contact with incompatible mat	erials.
laterials To Avoid And Incom	patibility		
	: Oxidizing agents; Acids.		
Hazardous decomposition pro	ducts : None known, refer to haz	ardous combustion products in Se	ection 5.
SECTION 11 - TOXICOLO	GICAL INFORMATION		
arget organs	: Eyes, skin, respiratory sys	stem and digestive system.	
Routes of exposure	: Inhalation: YES Skin	Absorption: NO Skin & Ey	es: YES Ingestion: YES
Foxicological data	: There is no available da	ata for the product itself, only fo	or the ingredients. See
	below for individual ing	redient acute toxicity data.	
	LC₅₀(4hr)		LD <sub>50</sub>
Ingredients	inh, rat	(Oral, rat)	(Rabbit, dermal)
Hydrotreated light	2.18 mg/L/4H	>5000 mg/kg	>3160 mg/kg
naphthenic distillate Zinc alkyldithiophosphate	N/Av	2000-5000 mg/kg	>2000 mg/kg
	No components are listed	as carcinogens by ACGIH, IARC	
Carcinogenic status Reproductive effects	: No components are listed : Not expected to be cause	• •	
Feratogenicity	: Not expected to be a tera	1	
Autagenicity	: Not expected to be a tera	•	
	: No information available.	,	
Epidemiology			
	-		
Sensitization to material	: Not expected to be a skin	or respiratory sensitizer.	
Sensitization to material Synergistic materials Irritancy	-		



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#### other important hazards : None known.

Conditions aggravated by overexposure

: Pre-existing skin and respiratory disorders.

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.

Handling for Disposal	<ul> <li>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.</li> </ul>	
Methods of Disposal	<ul> <li>Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.</li> </ul>	
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: TRANPORT INFORMATION					
Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
49CFR/DOT	None	Not regulated.	Not regulated	none	$\bigotimes$
49CFR/DOT Additional information	None.				
TDG	None	Not regulated.	Not regulated	none	$\bigotimes$
TDG Additional information	None.				
IMDG	None	Not regulated.	Not regulated	none	$\bigotimes$
IMDG Additional information	None.	· ·	1		

## SECTION 15 - REGULATORY INFORMATION

**US Federal Information:** 



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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 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.

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: 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 - OTHE	<b>CR INFORMATION</b>	

HMIS Rating	*- Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe		
0	Health: 1 Flammability: 1 Reactivity: 0		
Legend	<ul> <li>ACGIH: American Conference of Governmental Industrial Hygienists</li> <li>CAS: Chemical Abstract Services</li> <li>CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980</li> <li>CFR: Code of Federal Regulations</li> <li>cSt: Centistokes</li> <li>DOT: Department of Transportation</li> <li>EPA: Environmental Protection Agency</li> <li>HMIS: Hazardous Materials Identification System</li> <li>HSDB: Hazardous Materials Identification System</li> <li>HSDB: Hazardous Substances Data Bank</li> <li>IARC: International Agency for Research on Cancer</li> <li>IMDG: International Maritime Dangerous Goods</li> <li>Inh: Inhalation</li> <li>LC: Lethal Concentration</li> <li>LD: Lethal Dose</li> <li>MSHA: Mine Safety and Health Administration</li> <li>N/Ap: Not Available</li> <li>NFPA: National Fire Protection Association</li> <li>NIOSH: National Institute of Occupational Safety and Health</li> <li>NTF: National Toxicology Program</li> <li>OSHA: Occupational Safety and Health Administration</li> <li>PEL: Permissible exposure limit</li> <li>RCRA: Resource Conservation and Recovery Act</li> <li>RTECS: Registry of Toxic Effects of Chemical Substances</li> <li>SARA: Superfund Amendments and Reauthorization Act</li> <li>STEL: Short Term Exposure Limit</li> <li>TDG: Canadian Transportation of Dangerous Goods Act &amp; Regulations</li> <li>TLV: Threshold Limit Values</li> </ul>		



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	References	<ul> <li>TWA: Time Weighted Average</li> <li>WHMIS: Workplace Hazardous Materials Identification System</li> <li>1. ACGIH, Threshold Limit Values and Biological Exposure Indices</li> <li>2. International Agency for Research on Cancer Monographs</li> <li>3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2010 (Chempendium, HSDB, RTECs).</li> <li>4. Material Safety Data Sheet from manufacturer</li> <li>5. US EPA Title III List of Lists</li> <li>6. California Proposition 65 List</li> </ul>
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### Prepared for:

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#### Prepared by:

ICC The Compliance Center Inc. http://www.thecompliancecenter.com



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