

Case Akcela No. 1 Engine Oil CJ-4 - Multigrades

MSDS Revision Date (mm/dd/yyyy): 03/26/2013

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MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product identifier : Case Akcela No. 1 Engine Oil CJ-4 - Multigrades

None reported. Product Code(s) **Product Use** Lubricant Mixture. **Chemical Family**

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

: (630) 850-4000 Information Telephone #

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

(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 : Dark liquid. Mild petroleum odour.

> 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. 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.

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

: 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).

: See TOXICOLOGICAL INFORMATION, Section 11. Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11. Additional health hazards

Potential environmental effects

: See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS



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<u>Ingredients</u>	CAS#	Wt.%
Hydrotreated heavy paraffinic distillate	64742-54-7	60.00 - 100.00
Zinc dialkyldithiophosphate	68649-42-3	0.50 - 1.50

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 (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.

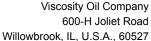
Hazardous combustion products

: Carbon oxides; Hydrocarbons; 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





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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					
	ACG	IH TLV	OSHA PEL		
<u>Ingredients</u>	<u>TWA</u>	STEL	PEL	STEL	
Hydrotreated heavy paraffinic distillate	5 mg/m³ (As 'Oil mist, mineral')	10 mg/m³ (As 'Oil mist, mineral')	5 mg/m³ (As 'Oil mist, mineral')	N/Av	
Zinc dialkyldithiophosphate	N/Av	N/Av	N/Av	N/Av	

Ventilation and engineering measures

: Use only in well-ventilated areas. Provide sufficient ventilation to keep vapour concentration below the given TLV and/or PEL.

Respiratory protection

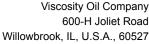
: Respiratory protection is required if the concentrations exceed the TLV. Use NIOSH/MSHA approved equipment. Advice should be sought from respiratory

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.





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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

 Physical state
 : Liquid.
 Appearance
 : Dark liquid.

 Odour
 : Petroleum odour.
 Odour threshold
 : N/Av

pH : N/Ap

Boiling point : N/Av Specific gravity : 0.88

Melting/Freezing point : Pour point - 34°C (- Coefficient of water/oil distribution

30°F) : 1

Vapour pressure (mmHg @ 20° C / 68° F)

Solubility in water : negligible

: <1

Vapour density (Air = 1) : 10 Evaporation rate (n-Butyl acetate = 1)

: 1000 times Slower than

n-butyl acetate

Volatile organic Compounds (VOC's) Volatiles (% by weight) : N/Av

· N/Av

Flash point : 221°C (430°F)

Flash point Method : Cleveland Open Cup Auto-ignition temperature : N/Av

Lower flammable limit (% by vol.)

Upper flammable limit (% by vol.)

oppor naminable milit (70 by voi.)

: N/Av Flashback observed : N/Ap

Viscosity : N/Av

Absolute pressure of container

Flame Projection Length

: N/Ap

N/Av

N/Ap

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

Toxicological data : There is no available data for the product itself, only for the ingredients. See

below for individual ingredient acute toxicity data.

	LCso(4hr)	LD ₅₀		
<u>Ingredients</u>	inh, rat	(Oral, rat)	(Rabbit, dermal)	
Hydrotreated heavy paraffinic distillate	N/Av	>15000 mg/kg	>5000 mg/kg	



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Zinc dialkyldithiophosphate N/Av	N/Av	N/Av
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: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP. Carcinogenic status

Not expected to cause reproductive effects. Reproductive effects

Teratogenicity Not expected to be a teratogen.

Not expected to be mutagenic in humans. Mutagenicity

No information available. **Epidemiology**

Not expected to be a skin or respiratory sensitizer. Sensitization to material

No information available. Synergistic materials

May cause mild eye irritation. May cause mild skin irritation. Irritancy

None known. other important hazards

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

The product itself has not been tested. Mobility The product itself has not been tested. Persistence The product itself has not been tested. Bioaccumulation potential

Other Adverse Environmental effects

: None known.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal :	Handle in accordance with	n good industrial hyg	giene and safety practice. Refer to
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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.

SECTION 14: TRANPORT INFORMATION

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



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TDG Additional information	None.				
IMDG	None	Not regulated.	Not regulated	none	\bigotimes
IMDG Additional information	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: 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: This product is not a WHMIS Controlled Product. It does not meet any of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR). Refer to Section 1 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

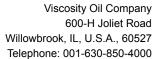
CERCLA: Comprehensive Environmental Response, Compensation, and Liability

Act of 1980

CFR: Code of Federal Regulations

cSt: Centistokes

DOT: Department of Transportation





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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

TLV: Threshold Limit Values TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

: 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & 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, 2013

(Chempendium, HSDB and RTECs).

4. Material Safety Data Sheets from manufacturer.

5. US EPA Title III List of Lists - October 2012 version.

6. California Proposition 65 List - February 8, 2013 version.

Prepared for:

References

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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.



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DISCLAIMER OF LIABILITY



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Revision Information : (M)SDS sections updated:

1. IDENTIFICATION

END OF DOCUMENT