



**Case AkcelA Actifull OT Premix**

MSDS Preparation Date (mm/dd/yyyy): 04/17/2013

Page 1 of 9

**MATERIAL SAFETY DATA SHEET**

**SECTION 1 - IDENTIFICATION**

**Product identifier** : **Case Akcela Actifull OT Premix**

: Not reported

**Product Code(s)** : Not available.

**Product Use** : Mixture

**Chemical Family**

**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 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 D1B (Materials Causing Immediate and Serious Toxic Effects, Toxic Material);  
Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material)  
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;  
Chronic Health Hazard.

**Emergency Overview** : Fluorescent yellow liquid. Chemical odour.  
Warning! POISON! Moderate to severe eye irritant. May cause mild to moderate skin irritation. Harmful or fatal if swallowed. Harmful if absorbed through the skin. May cause nausea, vomiting, headache and other central nervous system effects. Could also cause convulsions, coma, respiratory arrest and death. Can cause kidney damage. May cause liver effects. Possible birth defect hazard - contains material that may cause birth defects, based on animal data.

**POTENTIAL HEALTH EFFECTS:**

**Signs and symptoms of short-term (acute) exposure**

*Inhalation* : May cause irritation to the nose, throat and upper respiratory tract. If mists are inhaled, may cause tearing, general anesthesia, headache, coughing, respiratory stimulation, nausea, vomiting, pulmonary, kidney and liver damage.

*Skin* : May cause mild to moderate skin irritation. Product may be absorbed and cause symptoms similar to those listed for ingestion.

*Eyes* : May cause moderate to severe irritation. Symptoms may include inflammation and tearing.



### Case AkcelA Actifull OT Premix

MSDS Preparation Date (mm/dd/yyyy): 04/17/2013

Page 2 of 9

**Ingestion** : Harmful or fatal if swallowed. Human poison by ingestion (lethal dose of Ethylene glycol for humans reported to be 100 mL). Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Initially, the central nervous system is stimulated, followed by depression. Could cause cyanosis (bluish discoloration of the skin due to deficient oxygenation of the blood). May potentially result in lethal kidney damage. Could also cause convulsions, coma, respiratory arrest and death.

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

: Prolonged or repeated ingestion may cause bladder or kidney stones.

#### Carcinogenic status

: See TOXICOLOGICAL INFORMATION, Section 11.

#### Additional health hazards

: Potential teratogen. See TOXICOLOGICAL INFORMATION, Section 11.

#### Potential environmental effects

: See ECOLOGICAL INFORMATION, Section 12.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredients</b>	<b>CAS #</b>	<b>Wt. %</b>
Ethylene glycol	107-21-1	40.00 - 70.00
Sebacic acid	111-20-6	0.50 - 1.50
Potassium hydroxide	1310-58-3	1.00 - 5.00

### SECTION 4 - FIRST AID MEASURES

<b>Inhalation</b>	: Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. Get medical attention.
<b>Skin contact</b>	: Immediately flush with plenty of water, while removing contaminated clothing. If irritation persists, seek prompt medical attention. Launder clothing before reuse.
<b>Eye contact</b>	: Immediately flush eye(s) with plenty of water. After initial flushing, remove any contact lenses if worn, and continue flushing for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.
<b>Ingestion</b>	: Toxic if swallowed. Call a physician or poison control centre immediately. Induce vomiting ONLY under the direct supervision of qualified medical personnel or a poison control centre. Never give anything by mouth to an unconscious person.
<b>Notes For Physician</b>	: Prompt medical attention is important. Delayed treatment may result in fatality. This product is a CNS depressant. Use of ethanol may be helpful to counter the toxic effects of ethylene glycol by interfering with the absorption rate in the stomach and intestine.

### SECTION 5 - FIRE FIGHTING MEASURES

#### Fire hazards/conditions of flammability

: Not flammable under normal conditions of handling. However, may ignite if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

#### 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

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.



---

**Case AkcelA Actifull OT Premix**

MSDS Preparation Date (mm/dd/yyyy): 04/17/2013

Page 3 of 9

**Special fire-fighting procedures/equipment**

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

**Hazardous combustion products**

- : Carbon oxides, formaldehyde and other irritating fumes and smoke.

**NFPA Rating**

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

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. 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. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

**Spill response/cleanup**

- : Remove all sources of ignition. Ventilate area of release. 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). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

**Prohibited materials**

- : Use non-flammable absorbent only.

**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): Ethylene glycol (5000 lbs / 2270 kg).

**SECTION 7 - HANDLING AND STORAGE**

**Safe Handling procedures**

- : This material is a harmful liquid. Wear suitable protective equipment during handling. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment. Use with adequate ventilation. Do not ingest. Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. Wash with soap and water after handling. Keep away from extreme heat and flame. Keep away from acids and other incompatibles. Use caution when opening cap. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

**Storage requirements**

- : Store in a cool, dry, well-ventilated area. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

**Incompatible materials**

- : Strong oxidizing agents; Strong acids; Strong alkalis; Strong bases.

**Special packaging materials**

- : Always keep in containers made of the same materials as the supply container.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**



**Case AkcelA Actifull OT Premix**

MSDS Preparation Date (mm/dd/yyyy): 04/17/2013

Page 4 of 9

<b>Ingredients</b>	<b>ACGIH TLV</b>		<b>OSHA PEL</b>	
	<b>TWA</b>	<b>STEL</b>	<b>PEL</b>	<b>STEL</b>
Ethylene glycol	100 mg/m <sup>3</sup> (as aerosol) (Ceiling)	N/Av	50 ppm (Ceiling) (final rule limit)	N/Av
Sebacic acid	N/Av	N/Av	N/Av	N/Av
Potassium hydroxide	2 mg/m <sup>3</sup> (Ceiling)	N/Av	2 mg/m <sup>3</sup> (Ceiling) (final rule limit)	N/Av

**Ventilation and engineering measures**

: Use sufficient mechanical ventilation to maintain exposures below the TLV. Use local exhaust if mist or spray is generated.

**Respiratory protection**

: Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists. 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.

**Skin protection**

: Wear impervious gloves, such as butyl rubber. Advice should be sought from glove suppliers.

**Eye / face protection**

: Chemical goggles are recommended when there is a potential for splashing.

**Other protective equipment**

: Emergency showers and eyewash facilities should be nearby. Wear a chemically resistant apron and long sleeves when dispensing, to prevent skin contact.

**General hygiene considerations**

: Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. When using do not eat or drink. When using do not smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	: Liquid.	<b>Appearance</b>	: Fluorescent yellow
<b>Odour</b>	: Chemical odour.	<b>Odour threshold</b>	: N/Av
<b>pH</b>	: 7.9		
<b>Boiling point</b>	: 109°C (228.2°F)	<b>Specific gravity</b>	: 1.070
<b>Melting/Freezing point</b>	: - 37°C (-34.6°F)	<b>Coefficient of water/oil distribution</b>	: N/Av
<b>Vapour pressure (mmHg @ 20° C / 68° F)</b>	: N/Av	<b>Solubility in water</b>	: Complete
<b>Vapour density (Air = 1)</b>	: N/Av	<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>	: N/Av		
<b>Flash point Method</b>	: N/Av	<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>	: < 10 cSt @ 20°C (68°F)		



**Case AkcelA Actifull OT Premix**

MSDS Preparation Date (mm/dd/yyyy): 04/17/2013

Page 5 of 9

**Absolute pressure of container**

: N/Ap

**SECTION 10: STABILITY AND REACTIVITY**

- Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed.  
**Hazardous polymerization** : Will not occur.  
**Conditions to avoid** : Avoid excessive heat, sparks and open flame. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

**Materials To Avoid And Incompatibility**

: Incompatible materials (see Section 7).

**Hazardous decomposition products**

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

**SECTION 11 - TOXICOLOGICAL INFORMATION**

- Target organs** : Eyes, skin, respiratory system, central nervous system, liver and kidneys.  
**Routes of exposure** : *Inhalation*: YES *Skin Absorption*: YES *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.

<u>Ingredients</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh. rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Ethylene glycol	2725 mg/m <sup>3</sup> (aerosol)	4000 mg/kg	9530 mg/kg
Sebacic acid	N/Av	14375 mg/kg	N/Av
Potassium hydroxide	N/Av	205 mg/kg	> 1260 mg/kg

- Carcinogenic status** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.  
**Reproductive effects** : None known.  
**Teratogenicity** : Contains ethylene glycol, which may cause teratogenic effects at doses which are not maternally toxic, based on animal data.  
**Mutagenicity** : None known.  
**Epidemiology** : Not available.  
**Sensitization to material** : Not expected to be a skin or respiratory sensitizer.  
**Synergistic materials** : Not available.  
**Irritancy** : Mild to moderate skin irritant. Moderate to severe eye irritant.  
**other important hazards** : CNS depression may result from extreme exposures.  
**Conditions aggravated by overexposure** : Pre-existing skin or eye disorders, and impaired liver or kidney functions.

**SECTION 12 - ECOLOGICAL INFORMATION**

- Ecotoxicity** : The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.



**Case AkcelA Actifull OT Premix**

MSDS Preparation Date (mm/dd/yyyy): 04/17/2013

Page 6 of 9

**Ecotoxicity data:**

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Ethylene glycol	107-21-1	Oncorhynchus mykiss (rainbow trout) = 41000 mg/L	N/Av	N/Ap
Sebacic acid	111-20-6	N/Av	N/Av	N/Ap
Potassium hydroxide	1310-58-3	Gambusia affinis (Mosquito fish) = 80 mg/L	N/Av	N/Ap

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Ethylene glycol	107-21-1	Daphnia magna (Water flea) = 46300 mg/L	N/Av	N/Ap
Sebacic acid	111-20-6	N/Av	N/Av	N/Ap
Potassium hydroxide	1310-58-3	Ceriodaphnia Dubia (water flea) = 56 mg/L	N/Av	N/Ap

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Ethylene glycol	107-21-1	Green algae = 6500 - 13000mg/L/96hr	N/Av	N/Ap
Sebacic acid	111-20-6	N/Av	N/Av	N/Ap
Potassium hydroxide	1310-58-3	N/Av	N/Av	N/Ap

- Mobility** : No data is available on the product itself.  
**Persistence** : Ethylene glycol is considered to be readily biodegradable.  
**Bioaccumulation potential** : No data is available on the product itself.  
**Other Adverse Environmental effects** : No data is available on the product itself.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

- Handling for Disposal** : Handle waste according to recommendations in Section 7.  
**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.





**Case AkcelA Actifull OT Premix**

MSDS Preparation Date (mm/dd/yyyy): 04/17/2013

**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	
<b>49CFR/DOT Additional information</b>	If the quantity of Ethylene glycol is greater than 5000 pounds per container, the following DOT shipping description applies: RQ UN3082, Environmentally hazardous substances, liquid, n.o.s. (Ethylene glycol), 9, III.				
TDG	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:

Ingredients	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
Ethylene glycol	107-21-1	Yes	5000 lbs 2270 kg		Yes	1%
Sebacic acid	111-20-6	Yes	N/Av	N/Av	No	NS
Potassium hydroxide	1310-58-3	Yes	1000 lb/ 454 kg	N/Av	No	NS

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard; Chronic 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.

**US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:









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

---

**Case AkcelA Actifull OT Premix**

MSDS Preparation Date (mm/dd/yyyy): 04/17/2013

Page 9 of 9

MA: Massachusetts  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
NFPA: National Fire Protection Association  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
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, CCIInfoWeb databases, 2013 (Chempendium and RTECs).
- 4. Material Safety Data Sheet from manufacturer.
- 5. US EPA Title III List of Lists - October 2012 version.
- 6. California Proposition 65 List - February 8, 2013 version.

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

**DISCLAIMER OF LIABILITY**

This Material Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Viscosity Oil Company and CCOHS' Web Information Service. The information in the Material Safety Data Sheet (MSDS) is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Viscosity Oil Company expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process.

This Material Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Viscosity Oil Company.

**Preparation Date (mm/dd/yyyy)**

: 04/17/2013

**END OF DOCUMENT**