

Material Safety Data Sheet

Update: 03/20/2013

Version : 7



VISCOPLEX® 8-219(5001)

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1. Chemical Product and Company Identification

VISCOPLEX® 8-219(5001)

Supplier:

Evonik Oil Additives USA, Inc.
723 Electronic Drive
Horsham, PA 19044-2228
USA

Telephone No. 215-706-0843
Toll Free No. 1-888-876-4629
Regulatory Specialist 215-706-5840

Spill, Leak, Fire, Exposure or Accident
CHEMTREC® 1-800-424-9300
CANUTEC 613-996-6666 (Canada)
Outside USA 703-527-3887 (Collect calls accepted)
+49 6151 18 4342 (Germany)
+33 3 88 73 60 00 (France)

Product Use: Viscosity index improver for hydraulic fluids

2. Composition/Information on Ingredients

This material is classified as hazardous under OSHA regulations.

<u>Ingredients</u>		<u>CAS Reg. No.</u>	<u>Weight %</u>
acrylic copolymer	68171-50-6	trade secret	60 - 100
interchangeable neutral oils		72623-86-0	15 - 40
interchangeable neutral oils		8042-47-5	

NJTSR # RX000001

See Section 8, Exposure Controls/Personal Protection

3. Hazards Identification

Emergency Overview

Color: pale yellow to amber
Appearance: liquid
Odor: sweet

MAY CAUSE EYE AND SKIN IRRITATION

Primary Routes of Exposure

Skin contact
Eye contact

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Potential Health Effects

Eye contact

May cause eye irritation.

Skin contact

May cause skin irritation.

Potential Environmental Effects

See SECTION 12, Ecological Information

4. First Aid Measures

First Aid Procedures

General information

First aider needs to protect himself.

Inhalation

If inhaled, remove to fresh air. If breathing is difficult, get medical attention.

Eye contact

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

Skin contact

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Obtain medical attention if irritation develops or persists.

Ingestion

If swallowed, only induce vomiting if directed by medical personnel. Get medical attention. Never give anything by mouth to an unconscious person.

Note to Physician

Product is soluble in medical white oil (BP) and/or paraffin oil.

5. Fire-Fighting Measures

Flash point	> 120 °C (ASTM D 3278) > 248 °F (ASTM D 3278)
Ignition temperature	not available
Lower explosion limit	not available
Upper explosion limit	not available
OSHA Flammability Classification	none

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Unusual Hazards

Combustion generates toxic fumes of the following: Carbon oxides

Extinguishing Media

Use the following extinguishing media when fighting fires involving this material:

water spray (fog), CO₂, dry chemicals, and/or extinguishing agents appropriate for the surrounding fire

Fire Fighting Procedures

Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent). Wear full protective gear.

6. Accidental Release Measures

Personal Protection

Wear a MSHA/NIOSH approved (or equivalent) half-mask, air-purifying respirator. Wear compatible, chemically resistant gloves. Wear protective clothing, including splash proof goggles and rubber overshoes. Take off all contaminated clothing immediately.

For further Information see SECTION 8, Exposure Controls/Personal Protection.

Procedures

Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. Handling and Storage

Handling

Keep container tightly closed. Wash thoroughly after handling. Avoid formation of oil mist. Ensure there is good room ventilation.

Storage

Keep container tightly closed and in a well-ventilated place. Do not store at temperatures above 100 °C / 212 °F. Low temperature storage can cause handling problems. Viscosity of material will increase.

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8. Exposure Controls/Personal Protection

Exposure Limit Information

OIL MIST, MINERAL, PETROLEUM FUMES - see Remark/s

Occupational Exposure Values	Remark(s):
ACGIH TLV-TWA	5 mg/m ³ I: measured as inhalable fraction of the aerosol
ACGIH TLV-STEL	not established
OSHA PEL-TWA	not established
OSHA PEL-STEL	not established
OEL-TWA (Alberta)	5 mg/m ³ CAS No. 8012-95-1
OEL-STEL (Alberta)	10 mg/m ³ CAS No. 8012-95-1
OEL-TWA (British Columbia)	1 mg/m ³ CAS No. 8052-41-3
OEL-STEL (British Columbia)	not established
OEL-TWA (Ontario)	5 mg/m ³ CAS No. 8012-95-1
OEL-STEL (Ontario)	10 mg/m ³ CAS No. 8012-95-1
OEL-TWA (Quebec)	5 mg/m ³ CAS No. 8012-95-1
OEL-STEL (Quebec)	10 mg/m ³ CAS No. 8012-95-1
OEL-TWA (Mexico)	5 mg/m ³ CAS No. 8012-95-1
OEL-STEL (Mexico)	10 mg/m ³ CAS No. 8012-95-1

Engineering Controls (Ventilation)

None required under normal operating conditions.

Personal Protective Equipment (PPE)

Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Where misting may occur, wear a MSHA/NIOSH approved (or equivalent) half mask, dust/mist air purifying respirator.

Eye Protection

Use safety glasses (ANSI Z87.1 or approved equivalent).

Skin Protection

Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

Hand Protection

The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection:

nitrile rubber gloves

butyl rubber gloves

Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

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Other Protective Equipment

Facilities storing or utilizing this material should be equipped with an eyewash facility.

9. Physical and Chemical Properties

Appearance	pale yellow to amber
Physical state	liquid
Odor	sweet
Flash point	> 120 °C (ASTM D 3278) > 248 °F (ASTM D 3278)
pH-value	not applicable
Viscosity (kinematic)	ca. 825 mm ² /s at 100 °C / 212 °F
Specific gravity (water = 1)	0.94 g/cm ³ at 15 °C / 59 °F
Vapor density (air = 1)	> 1 at 20 °C / 68 °F
Vapor pressure	< 1 hPa (= mbar) at 20 °C / 68 °F
Pour Point	-4 °C / 25 °F
Boiling Temperature	not available
Solubility in water	practically insoluble
Evaporation rate	not available
Odor threshold	not available
Further information	none

See Section 5, Fire Fighting Measures

10. Stability and Reactivity

Stability

This material is considered stable under specified conditions of storage, shipment and/or use.

Conditions To Avoid

High temperature. Depolymerization begins at 200 °C / 392 °F.

Incompatibility With Other Materials

strong oxidizing agents

Hazardous Decomposition Products

None when used as directed. Under conditions of thermal decomposition: Methacrylates
When overheated: oil vapours

Hazardous Polymerization

Product will not undergo polymerization.

11. Toxicological Information

Acute Oral Toxicity

LD50 rat
(analogy)

> 2,000 mg/kg

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Acute Dermal Toxicity

LD50 rabbit > 2,000 mg/kg
(analogy)

Irritant Effect on the Skin

If contact with skin is prolonged and/or frequent, irritations cannot be excluded. The product has a degreasing effect on skin. (analogy)

Irritant Effect on the Eyes

Contact with the eyes may cause irritation. (analogy)

Sensitization

(analogy) not sensitizing

Mutagenicity

not mutagenic
(analogy)

Carcinogenicity

no specific test data available
no evidence for hazardous properties
(structure-activity-relationships)
(analogy)

Reprotoxicity / teratogenicity

no specific test data available
no evidence for hazardous properties
(structure-activity-relationships)
(analogy)

Further Information on Toxicology

There are no toxicological data available for the product as such.
Avoid contact with the skin and eyes and inhalation of the product vapours.

12. Ecological Information

Information on elimination (persistence and degradability)

Bioaccumulation

no specific test data available no evidence for hazardous properties (structure-activity-relationships)
(analogy)

Ecotoxicological effects

Further Information on Ecology

Prevent substance from entering soil, natural bodies of water and sewer systems.

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13. Disposal Considerations

Procedures

Incinerate liquid and contaminated solids in accordance with local, state and federal regulations.

14. Transport Information

Further information

Not subject to the regulations on dangerous goods.

15. Regulatory Information

INVENTORY INFORMATION

REACH (EU)	preregistered, registered or exempted
TSCA (USA)	listed or exempted
DSL (CDN)	listed or exempted
AICS (AUS)	listed or exempted
METI (J)	listed or exempted
ECL (KOR)	listed or exempted
PICCS (RP)	listed or exempted
IECSC (CN)	listed or exempted
HSNO (NZ)	listed or exempted

HSR002605, Lubricants (Low Hazard) Group Standard 2006

US FEDERAL REGULATORY INFORMATION

Component / CASRN	TPQ [lbs]	CERCLA RQ [lbs] (40CFR302.4)	SARA 302 List of EHS	SARA 313 (40CFR372)	TSCA 12b
NONE					

COMPONENT CLASSIFICATION UNDER CLEAN AIR ACT SECTION 112

Component / CASRN	Weight %	HAP	EHAP
NONE			

PRODUCT CLASSIFICATION UNDER SECTION 311/312 OF SARA (40CFR370)

NONE

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US STATE REGULATORY INFORMATION

Component / CASRN	New Jersey RTK	Pennsylvania RTK	Massachusetts RTK	California Proposition 65 Cancer	California Proposition 65 Reproductive
acrylic copolymer	NO	NO	NO	NO	NO
neutral oil / 72623-86-0	NO	NO	NO	NO	NO
white mineral oil / 8042-47-5	NO	NO	NO	NO	NO

CANADIAN REGULATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the MSDS contains all information required by the Controlled Products Regulations.

This is a non-controlled product.

WHMIS: NO

Component / CASRN	NPRI
white mineral oil / 8042-47-5	YES

16. Other Information

	Health	Flammability	Reactivity
HMIS-Ratings	1	1	0
NFPA-Ratings	1	1	0

HMIS Hazard Ratings

- 4 = severe
- 3 = serious
- 2 = moderate
- 1 = slight
- 0 = minimal
- * = chronic health hazard

NFPA Hazard Ratings

- 4 = extreme
- 3 = high
- 2 = moderate
- 1 = slight
- 0 = insignificant
- N = no NFPA rating

This MSDS was prepared in accordance with ANSI Z400.1-1998.

Places marked by || have been amended from the last version.

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qualified experts. Reference to trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used.

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