Material Safety Data Sheet

Section 1- Chemical Product Identification

Product Name： RO-208 (Polyalkyleneoxide modified heptamethyltrisiloxane)

Section 2-Composition, Information on Ingredients

English Chemical Name： Polyalkyleneoxide modified heptamethyltrisiloxane

Section 3-Hazards Identification

Primary Entry Routes: Eyes, Skin, Inhalation, Ingestion
Targets Organs: Eyes, Skin, Respiratory Tract, Digestive System
Potential Health Effects: Harmful by inhalation and in contact with skin. Irritating to eyes and skin. Toxic for aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Inhalation: Harmful effects are not expected from static vapor at ambient temperature. Inhalation of an aerosol of the neat material within a confined space could result in respiratory distress and eye injury. Prolonged and/or repeated exposure may cause the following effects: An aerosol of the neat liquid may cause: - damage to respiratory tract - injury to the eyes - injury to the nasal cavity - injury to the blood-forming system
Eye: Liquid splashed into the eye causes discomfort. Causes the following effects:-pain-excess blinking-tear production-excess redness of the conjunctivate-swelling of the conjunctivae-mild corneal injury Prolonged exposure to vapor or aerosol may cause discomfort..
Skin: Brief contact is not expected to produce irritation. Prolonged contact may result in: - minor irritation -transient local redness - swelling Prolonged and/or repeated contact may result in: - skin irritation
Ingestion: No evidence of harmful effects from available information. Prolonged and/or repeated contact may result in: - injury to the liver - injury to the thyroid - injury to the kidney - injury to the blood-forming system - injury to the male and female reproductive systems.
Acute Effects: May be slightly toxic based on acute animal studies.
Chronic Effects: Not listed by NTP, IARC, ACGIH or OSHA as a carcinogen.

Medical Conditions Aggravated: Skin contact may aggravate an existing dermatitis.

Section 4-First Aid Measures

First Aid Measures of different disposure 1. Inhalation: Remove to fresh air if aerosol spray is inhaled. If breathing is difficult, administer oxygen. Obtain medical attention immediately. 2. Skin Contact: Wash skin with soap and water. 3. Eye Contact: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. 4. Ingestion: No emergency care anticipated.. 5. Notes to Physician: There is no specific antidote. Treatment is symptomatic and supportive.

Section 5- Fire Fighting Measures

Applicable extinguishing agent ： Foam, carbon dioxide, dry powder, water spray
Hazardous Decomposition Products: None with proper storage and handling.
Fire-Fighting Instructions: In the event of fire the following can be released: carbon monoxide, carbon dioxide, silicon dioxide. Collect contaminated fire-fighting water separately, must not be discharged into the drains.
Fire-Fighting Equipment : As in any fire wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.
Unusual Fire or Explosion Hazards: OSHA flammable class-combustible liquid, Class IIIB

Section 6-Accidental Release Measures

Emergency procedures: Slippery when spilt, clean up immediately. Wear protective equipment to prevent skin and eye damage
Methods and materials for containment and clean up: Prevent run off into drains or waterways. Do not discharge into the subsoil/soil. Take up with absorbent material (e.g. sand,

kieselguhr, universal binder). Collect and seal in properly labeled containers for disposal. Dispose of in accordance with all Local, State and Federal regulations at an approved waste disposal site. For small spills, wash with plenty of water.

Section 7-Handling and Storage

Handling Precautions：Formation of Aerosol vapors during processing and application should be prevented. Wear respiratory protection when spraying.
Storage Requirements：Keep container tightly closed.
Regulatory Requirements: No special measures required.

Section 8-Exposure Controls/Personal Protection

Engineering Control: Good general (mechanical) ventilation should be sufficient to control airborne levels
Ventilation: Maintain good ventilation to avoid inhalation or aerosols
Respiration Protection: Wear dust/mist respirator. Protective Clothing/Equipment: Light protective clothing is required. PVC gloves. Safety goggles and /or face shield is recommended for use.
Contaminated Equipment: Remove soiled or soaked clothing immediately.
Comments: Avoid contact with eyes and skin. Do not eat, drink or smoke when working. Wash hands before breaks and after work. Use barrier skin cream.

Section 9-Physical and Chemical Properties

Appearance: Colourless to light amber liquid	Surface Tension(0.1%): 20.3-21.3mN/m
Viscosity(25°C): 30-45 mPa.s	Cloud Point: <10°C
Density：1.00-1.02g/cm3	Melting point：---
Decompose Temperature：---	Flash Point：---

Burning Temperature：---	Exposure：---
Steam Pressure(20 C) (mm HG)：：< 1	Steam density：---
Solubleity in Water: Dispersible	Evaporation Rate: < 1

Section 10- Stability and Reactivity

Chemical Stability：Stable
Hazardous Polymerizations: None
Condition to Avoided: None with proper storing and handling
Chemical Incompatibilities: None with proper storing and handling
Hazardous Decomposition Products：None with proper storage and handling

Section 11-Toxicological Information

Eye effects: Species: rabbit, moderate irritant, Method: OECD 405
Acute Dermal Effect: LD50 Species:rat, DOSE:>4000mg/kg，Method:OECD402
Acute Oral Effects: LD50; Species: Rats; > 2,000 mg/kg;
Acute Inhalation Effects: LC50; Species: Rat.; 2 mg/l; Remarks: aerosol, Test results are based on analogy with a similar material. LC50; Species: Rat.; > 11.78 mg/l; Remarks: 5% Diluted aqueous solution, aerosol.By analogy with a product of similar composition.
Skin Irritation: Species: rabbit slight irritant effect-does not require labeling, method OECD 404
Chronic Effects: none known
Carcinogenicity: Not listed by NTP, IARC, ACGIH or OSHA as a carcinogen.
Mutagenicity: none known
Teratogenicity: none known

Section 12- Ecological Information

Ecotoxicity: none known

Aquatic Toxicity: LC50 Species: sunfish, Dose:15mg/l 96hr

EC50 Species: Daphnia Magna, Dose:177mg/l 48hr

Environmental Fate:

Ecological notes: Use best management practices to limit uncontrolled release to waterways.

Section 13- Disposal Considerations

Disposal: Should be consistent with federal, state and local regulations
Disposal Regulatory Requirements: In accordance with local authority regulations, take to special waste incineration plant.
Container Cleaning and Disposal: If empty contaminated containers are recycled or disposed of, the receiver must be informed about the possible hazards.

Section 14-Transport Information

UN Number: None allocated – Not dangerous group
Class – None allocated
Packing group - None allocated

Section 15- Regulatory Information

This MSDS has been prepared in accordance with WHMIS requirements.

Section 16-Other Information

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is the intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the

product specified and may not be suitable for with other materials or in processes other than those specifically described herein.

Supplier makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.