

## SECTION 1. IDENTIFICATION

### 1.1 PRODUCT IDENTIFIER

PRODUCT FORM: Mixture  
PRODUCT NAME: NSF Polymers OC-OG  
SYNONYMS: Resin, Polyurethane resin

### 1.2 INTENDED USE OF THE PRODUCT

Use in conjunction with isocyanate component. Spray Foam Insulation for commercial and residential use.

### 1.3 NAME, ADDRESS, AND TELEPHONE OF THE RESPONSIBLE PARTY COMPANY

NSF Polymers  
17598 N IH-35, West, TX 76691  
877-NSF-POLY  
www.nsfpolymers.com

### 1.4 EMERGENCY TELEPHONE NUMBER

Emergency Number: CHEMTREC: 1-703-741-5970

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE


#### GHS-US Classification

|                                  |      |
|----------------------------------|------|
| Acute Toxicity, Oral: 4          | H302 |
| Skin Corrosion/Irritation: 1B    | H314 |
| Serious Eye Damage/Irritation: 1 | H318 |

Full text of hazard classes and H-statements: see section 16

### 2.2 LABEL ELEMENTS

#### GHS-US Labeling

|                            |  |
|----------------------------|--|
| HAZARD PICTOGRAMS (GHS-US) |                                 |
| SIGNAL WORD (GHS-US)       | Danger   |
| HAZARD STATEMENTS (GHS-US) | H302 - Harmful if swallowed.<br>H314 Causes severe skin burns and eye damage.<br>H318 - Causes serious eye damage. |

### PRECAUTIONARY STATEMENTS (GHS-US)

P260 - Do not breathe gas/mist/vapors/spray.

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 +P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361 + P353 - IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351 +P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a doctor, a POISON CENTER

P330 - Rinse mouth.

P363 - Wash contaminated clothing before reuse

P405 - Store locked up.

P501 - Dispose of contents I container in accordance with current legislation.

### 2.3 OTHER HAZARDS

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4 UNKNOWN ACUTE TOXICITY (GHS-US)

No Available Data

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 SUBSTANCE

Not Applicable

| CHEMICAL NAME   | CAS NUMBER    | %*    |
|---|---------------|-------|
| Tris(1-chloro-2-propyl) phosphate   | 13674-84-5    | 10-20 |
| Nonylphenol ethoxylates 9 EO; 4-nonylphenol polyethylene glycol ether branched; polyethylene glycol, mono(p-nonylphenol) ether, branched; 4-nonylphenol, branched, ethoxylated; poly(oxy-1,2-ethanediy), alpha-(4-nonylphenol)- omega-hydroxy-branched. | 127087-87-0   | 10-20 |
| 2-[[2-(Dimethylamino) ethyl]methylamino] ethanol  | 2212-32-0     | 2-12  |
| Octamethylcyclotetrasiloxane  | 556-67-2      | 1-10  |
| Tertiary amine  | Not Available | 2-12  |

Full text of H-phrases: see section 16

\*The exact percentage of composition has been withheld as a trade secret [29 CFR 1910.1200].

### SECTION 4. FIRST AID MEASURES

#### 4.1 DESCRIPTION OF FIRST AID MEASURES

First-aid measures General: Never give anything by mouth to an unconscious person.

If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

#### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED

Symptoms/Injuries: Causes skin irritation. Causes serious eye damage.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation. Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects  
Chronic Symptoms: None expected under normal conditions of use.

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

### SECTION 5. FIRE FIGHTING MEASURES

#### 5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

#### 5.3 ADVICE FOR FIREFIGHTERS

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>). Phosphorus oxides. Corrosive vapors.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

General Measures: Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.

#### **6.1.1 FOR NON-EMERGENCY PERSONNEL**

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

#### **6.1.2 FOR EMERGENCY PERSONNEL**

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### **6.2 ENVIRONMENTAL PRECAUTIONS**

Prevent entry to sewers and public waters. Avoid release to the environment.

### **6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1 PRECAUTIONS FOR SAFE HANDLING**

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, fumes, mist, or spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Obtain special instructions before use.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

### **7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. reactive metals (Al, K, Zn ...). Isocyanates.

### **7.3 SPECIFIC END USE(S)**

Closed cell insulation, for professional use only.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 CONTROL PARAMETERS**

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

**Proprietary Ingredient #6**

|          |                               |                      |
|----------|-------------------------------|----------------------|
| USA AIHA | WEEL TWA (mg/m <sup>3</sup> ) | 10 mg/m <sup>3</sup> |
|----------|-------------------------------|----------------------|

**Proprietary Ingredient #5**

|           |                         |  |
|-----------|-------------------------|--|
| USA ACGIH | ACGIH TWA (ppm)         | 0.05 ppm   |
| USA ACGIH | ACGIH STEL (ppm)        | 0.15 ppm   |
| USA ACGIH | ACGIH chemical category | Skin - potential significant contribution to overall exposure by the cutaneous route |

**8.2 EXPOSURE CONTROLS**

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, Approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

|                  |              |
|------------------|--------------|
| Physical State   | Liquid       |
| Appearance       | Light Brown  |
| Odor             | Slight Anime |
| Relative Density | 1.05-1.09    |
| Viscosity        | 300-350      |

**9.2 OTHER INFORMATION**

No Additional Information available

**SECTION 10. STABILITY INFORMATION**

**10.1 REACTIVITY:**

Hazardous reactions will not occur under normal conditions.

**10.2 CHEMICAL STABILITY:**

Stable under recommended handling and storage conditions (see section 7).

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS:**

Hazardous polymerization will not occur.

**10.4 CONDITIONS TO AVOID:**

Direct sunlight, extremely high or low temperatures, and incompatible materials.

**10.5 INCOMPATIBLE MATERIALS:**

Strong acids, strong bases, strong oxidizers. reactive metals (Al, K, Zn ...). Isocyanates.

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS:**

Carbon oxides (CO, CO<sub>2</sub>). Phosphorus oxides. Nitrogen oxides. Hydrochloric acid fumes may be generated. Hydrogen bromide. Phosphine. aldehydes, ketones. Acrid smoke and irritating fumes.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

Acute Toxicity: Not Classified

**Proprietary Ingredient #1**

|                     |                |
|---------------------|----------------|
| LD50 Oral Rat       | 1500 mg/kg     |
| LD50 Dermal Rabbit  | >5000 mg/kg    |
| LC50 Inhalation Rat | > 5.05 mg/l/4h |

**Proprietary Ingredient #2**

|               |            |
|---------------|------------|
| LD50 Oral Rat | 1310 mg/kg |
|---------------|------------|

**Proprietary Ingredient #6**

|                     |   |
|---------------------|---|
| LD50 Oral Rat       | 1120 mg/kg                                    |
| LD50 Dermal Rabbit  | 11890 mg/kg                                   |
| LC50 Inhalation Rat | > 4600 mg/m <sup>3</sup> (Exposure time: 4 h) |

**Proprietary Ingredient #4**

|              |                          |
|--------------|--------------------------|
| ATE (Oral)   | 500.00 mg/kg body weight |
| ATE (Dermal) | 300.00 mg/kg body weight |

**Proprietary Ingredient #5**

|                     |                              |
|---------------------|------------------------------|
| LD50 Oral Rat       | 910 mg/kg                    |
| LD50 Dermal Rabbit  | 238 mg/kg                    |
| LC50 Inhalation Rat | 0.938 mg/l/4h                |
| LC50 Inhalation Rat | 117 ppm (Exposure time: 6 h) |

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 TOXICITY**

Ecology-General: Harmful to aquatic life with long lasting effects

**Proprietary Ingredient #1**

|                    |  |
|--------------------|--|
| LC50 Fish 1        | 56.2 mg/l (Exposure time: 96 h - Species: Brachy- danio rerio [static])  |
| EC50 Daphnia 1     | 63 mg/l (Exposure time: 48 h - Species: Daphnia magna)                   |
| LC50 Fish 2        | 98 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])    |
| ErC50 (Algae)      | 82 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata) |
| NOEC Chronic Algae | 6 mg/l   |

**Proprietary Ingredient #2**

|             |           |
|-------------|-----------|
| LC50 Fish 1 | 11.6 mg/l |
|-------------|-----------|

**Proprietary Ingredient #6**

|                |  |
|----------------|--|
| LC50 Fish 1    | 75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)                      |

**Proprietary Ingredient #5**

|                    |   |
|--------------------|---|
| LC50 Fish 1        | 131.2 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static]) |
| EC50 Daphnia 1     | 102 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])      |
| NOEC Chronic Algae | 0.26 mg/l   |

**12.2 PERSISTENCE AND DEGRADABILITY**

Persistence and Degradability: May cause long-term adverse effects in the environment.

**12.3 BIOACCUMULATIVE POTENTIAL**

**NSF POLYMERS OC**

|                           |                 |
|---------------------------|-----------------|
| Bioaccumulative Potential | Not established |
|---------------------------|-----------------|

**Proprietary Ingredient #1**

|            |           |
|------------|-----------|
| BCF Fish 1 | 1.9 - 4.6 |
| Log Pow    | 2.59      |

**Proprietary Ingredient #6**

|            |                  |
|------------|------------------|
| BCF Fish 1 | 100 - 180        |
| Log Pow    | -1.98 (at 25 °C) |

**12.4 MOBILITY IN SOIL**

No additional information available

**12.5 OTHER ADVERSE EFFECTS**

Other Adverse Effects: This product may degrade to yield endocrine disruptor(s).  
Other Information: Avoid release to the environment.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**13.1 WASTE TREATMENT METHODS**

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology- Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## **SECTION 14. TRANSPORT INFORMATION**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### **14.1 IN ACCORDANCE WITH DOT**

Not regulated for transport

### **14.2 IN ACCORDANCE WITH IMDG**

Not regulated for transport

### **14.3 IN ACCORDANCE WITH IATA**

Not regulated for transport

## **SECTION 15. REGULATORY INFORMATION**

### **15.1 US FEDERAL REGULATIONS**

NSF OC: SARA Section 311/312 Hazard Classes

Health hazard: Reproductive toxicity

Health hazard: Specific target organ toxicity (single or repeated exposure)

Health hazard: Skin corrosion or Irritation

Health hazard: Carcinogenicity

Health hazard: Serious eye damage or eye irritation

#### **Proprietary Ingredient #1**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### **Proprietary Ingredient #2**

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
EPA TSCA Regulatory Flag: XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

#### **Proprietary Ingredient #6**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### **Proprietary Ingredient #3**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### **Proprietary Ingredient #5**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### **15.2 US STATE REGULATIONS**

#### **Proprietary Ingredient #6**

U.S. - Pennsylvania - RTK (Right to Know) List

#### **Proprietary Ingredient #5**

U.S. - New Jersey - Right to Know Hazardous Substance List

**SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

DATE OF PREPARATION OR LATEST REVISION: 05/09/2018

OTHER INFORMATION: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

**GHS Full Text Phrases**

|                                  |  |
|----------------------------------|--|
| Acute Tox. 3 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 3                    |
| Acute Tox. 4 (Dermal)            | Acute toxicity (dermal) Category 4                               |
| Acute Tox. 4 (Oral)              | Acute toxicity (oral) Category 4                                 |
| Aquatic Acute 3                  | Hazardous to the aquatic environment - Acute Hazard Category 3   |
| Aquatic Chronic 3                | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Carc. 2                          | Carcinogenicity Category 2                                       |
| Eye Dam. 1                       | Serious eye damage/eye irritation Category 1                     |
| Eye Irrit. 2                     | Serious eye damage/eye irritation Category 2                     |
| Eye Irrit. 2A                    | Serious eye damage/eye irritation Category 2A                    |
| Flam. Liq. 2                     | Flammable liquids Category 2                                     |
| Flam. Liq. 3                     | Flammable liquids Category 3                                     |
| Repr. 2                          | Reproductive toxicity Category 2                                 |
| Skin Corr. 1B                    | Skin corrosion/irritation Category 1B                            |
| Skin Irrit. 2                    | Skin corrosion/irritation Category 2                             |
| STOT RE 2                        | Specific target organ toxicity (repeated exposure) Category 2    |
| STOT SE 3                        | Specific target organ toxicity (single exposure) Category 3      |
| H225                             | Highly flammable liquid and vapour                               |
| H226                             | Flammable liquid and vapour                                      |
| H302                             | Harmful if swallowed   |
| H312                             | Harmful in contact with skin                                     |

|      |   |
|------|---|
| H314 | Causes severe skin burns and eye damage                           |
| H315 | Causes skin irritation  |
| H318 | Causes serious eye damage   |
| H319 | Causes serious eye irritation                                     |
| H331 | Toxic if inhaled  |
| H335 | May cause respiratory irritation                                  |
| H351 | Suspected of causing cancer                                       |
| H361 | Suspected of damaging fertility or the unborn child               |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H402 | Harmful to aquatic life   |
| H412 | Harmful to aquatic life with long lasting effects                 |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)