

**SWAK™****Safety Data Sheet**

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

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**SECTION 1: IDENTIFICATION****1.1. Product Identifier****Product Form:** Mixture**Product Name:** SWAK™**1.2. Intended Use of the Product**

Anaerobic pipe thread sealant

**1.3. Name, Address, and Telephone of the Responsible Party****Company**

Swagelok Manufacturing Company, LLC

29495 F.A. Lennon Drive

Solon, Ohio 44139

440-519-4000

[www.swagelok.com](http://www.swagelok.com)**Manufacturer**

Swagelok Manufacturing Company, LLC

29495 F.A. Lennon Drive

Solon, Ohio 44139

440-519-4000

[www.swagelok.com](http://www.swagelok.com)**1.4. Emergency Telephone Number****Emergency Number** : CHEMTREC: (800) 424-9300**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the Substance or Mixture****GHS-US/CA classification**

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Skin Sens. 1 H317

STOT SE 3 H335

Aquatic Chronic 4 H413

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

**2.2. Label Elements****GHS-US/CA Labeling****Hazard Pictograms (GHS-US/CA)**

:



GHS07

**Signal Word (GHS-US/CA)**

: Warning

**Hazard Statements (GHS-US/CA)**

: H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H413 - May cause long lasting harmful effects to aquatic life.

**Precautionary Statements (GHS-US/CA)**

: P261 - Avoid breathing vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

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.

P312 - Call a POISON CENTER or doctor if you feel unwell.

P321 - Specific treatment (see section 4 on this SDS).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Inhalation of fumes from overheating "TEFLON" PTFE may cause polymer fume fever, a temporary flu-like illness with fever, chills and sometimes cough, of approximately 24 hours duration. This material contains an organic peroxide. Heating may cause hazardous decomposition. Hazardous decomposition products from peroxides are flammable and can be explosive under confinement. Dust is not expected to be generated, however repeated or prolonged exposure to titanium dioxide dust via inhalation is suspected of causing cancer of the respiratory tract. Due to the product's final form, combustible dusts are not likely to be generated, however if small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

### 2.4. Unknown Acute Toxicity No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name                                                                                                                           | Product Identifier      | % *     |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|
| Polytetrafluoroethylene                                                                                                        | (CAS No) 9002-84-0      | 30 - 40 |
| Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]- | (CAS No) 41637-38-1     | 30 - 40 |
| Nonanedioic acid, polymer with 1,2-propanediol                                                                                 | (CAS No) 29408-67-1     | 20 - 30 |
| Polyethylene glycol                                                                                                            | (CAS No) 25322-68-3     | 1 - 5   |
| Titanium dioxide                                                                                                               | (CAS No) 13463-67-7     | 1 - 5   |
| Silica, amorphous, fumed, crystalline-free                                                                                     | (CAS No) 112945-52-5    | < 1     |
| Cumene hydroperoxide                                                                                                           | (CAS No) 80-15-9        | < 1     |
| Particulates not otherwise classified (PNOC)                                                                                   | (CAS No) Not applicable |         |

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of 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).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

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

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes eye irritation. Causes skin irritation. May cause respiratory irritation. Skin sensitization.

**Inhalation:** Irritation of the respiratory tract and the other mucous membranes.

**Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** Not available

### 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:** Use extinguishing media appropriate for surrounding fire.

**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:** Contains substances that are combustible dusts. If dried and allowed to accumulate, may form combustible dust concentrations in air that could ignite and cause an explosion. Take appropriate precautions.

**Explosion Hazard:** Product itself is not explosive but if dust is generated, dust clouds suspended in air can be explosive.

**Reactivity:** This material contains an organic peroxide. Heating may cause hazardous decomposition. Hazardous decomposition products from peroxides are flammable and can be explosive under confinement.

### 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:** Not available

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

### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid breathing (vapor, mist, spray). Do not get in eyes, on skin, or on clothing. Avoid generating dust. Remove ignition sources. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection 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. Avoid generation of dust during clean-up of spills.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Keep away from heat, sparks, open flames, hot surfaces. – No smoking. This material contains an organic peroxide. Heating may cause hazardous decomposition. Hazardous decomposition products from peroxides are flammable and can be explosive under confinement. . Inhalation of fumes from overheating "TEFLON" PTFE may cause polymer fume fever, a temporary flu-like illness with fever, chills and sometimes cough, of approximately 24 hours duration.

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, spray. Avoid contact with eyes, skin and clothing. Avoid creating or spreading dust. Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

**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. Avoid creating or spreading dust. Proper grounding procedures to avoid static electricity should be followed.

**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.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers, amines, active metals, ammonia, combustible materials, reducing agents, pure oxygen, oxygen scavengers, peroxides.

#### 7.3. Specific End Use(s)

Anaerobic pipe thread sealant

### 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), OSHA (PEL), Canadian provincial governments, or the Mexican government.

|                                            |                                     |                                                                                |
|--------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------|
| <b>Polytetrafluoroethylene (9002-84-0)</b> |                                     |                                                                                |
| Québec                                     | VEMP (mg/m <sup>3</sup> )           | 2.5 mg/m <sup>3</sup> (decomposition products)                                 |
| <b>Polyethylene glycol (25322-68-3)</b>    |                                     |                                                                                |
| USA AIHA                                   | WEEL TWA (mg/m <sup>3</sup> )       | 10 mg/m <sup>3</sup> (MW>200, aerosol)                                         |
| <b>Cumene hydroperoxide (80-15-9)</b>      |                                     |                                                                                |
| USA AIHA                                   | WEEL TWA (ppm)                      | 1 ppm                                                                          |
| USA AIHA                                   | AIHA chemical category              | skin notation                                                                  |
| <b>Titanium dioxide (13463-67-7)</b>       |                                     |                                                                                |
| Mexico                                     | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>                                                           |
| Mexico                                     | OEL STEL (mg/m <sup>3</sup> )       | 20 mg/m <sup>3</sup>                                                           |
| USA ACGIH                                  | ACGIH TWA (mg/m <sup>3</sup> )      | 10 mg/m <sup>3</sup>                                                           |
| USA ACGIH                                  | ACGIH chemical category             | Not Classifiable as a Human Carcinogen                                         |
| USA OSHA                                   | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 15 mg/m <sup>3</sup> (total dust)                                              |
| USA IDLH                                   | US IDLH (mg/m <sup>3</sup> )        | 5000 mg/m <sup>3</sup>                                                         |
| Alberta                                    | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>                                                           |
| British Colombia                           | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (total dust)<br>3 mg/m <sup>3</sup> (respirable fraction) |
| Manitoba                                   | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>                                                           |
| New Brunswick                              | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>                                                           |
| Newfoundland & Labrador                    | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>                                                           |
| Nova Scotia                                | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>                                                           |
| Nunavut                                    | OEL TWA (mg/m <sup>3</sup> )        | 5 mg/m <sup>3</sup> (respirable mass)<br>10 mg/m <sup>3</sup> (total mass)     |
| Northwest Territories                      | OEL STEL (mg/m <sup>3</sup> )       | 20 mg/m <sup>3</sup>                                                           |
| Northwest Territories                      | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>                                                           |
| Ontario                                    | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>                                                           |

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|                                                                      |                                     |                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prince Edward Island</b>                                          | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>                                                                                                                                                                                                               |
| <b>Québec</b>                                                        | VEMP (mg/m <sup>3</sup> )           | 10 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-total dust)                                                                                                                                                |
| <b>Saskatchewan</b>                                                  | OEL STEL (mg/m <sup>3</sup> )       | 20 mg/m <sup>3</sup>                                                                                                                                                                                                               |
| <b>Saskatchewan</b>                                                  | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup>                                                                                                                                                                                                               |
| <b>Yukon</b>                                                         | OEL STEL (mg/m <sup>3</sup> )       | 20 mg/m <sup>3</sup>                                                                                                                                                                                                               |
| <b>Yukon</b>                                                         | OEL TWA (mg/m <sup>3</sup> )        | 30 mppcf<br>10 mg/m <sup>3</sup>                                                                                                                                                                                                   |
| <b>Particulates not otherwise classified (PNOC) (Not applicable)</b> |                                     |                                                                                                                                                                                                                                    |
| <b>USA ACGIH</b>                                                     | ACGIH TWA (mg/m <sup>3</sup> )      | 3 mg/m <sup>3</sup> Respirable fraction<br>10 mg/m <sup>3</sup> Total Dust                                                                                                                                                         |
| <b>USA OSHA</b>                                                      | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 5 mg/m <sup>3</sup> Respirable fraction<br>15 mg/m <sup>3</sup> Total Dust                                                                                                                                                         |
| <b>Alberta</b>                                                       | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (total)<br>3 mg/m <sup>3</sup> (respirable)                                                                                                                                                                   |
| <b>British Colombia</b>                                              | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (total dust)<br>3 mg/m <sup>3</sup> (respirable fraction)                                                                                                                                                     |
| <b>Manitoba</b>                                                      | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (inhalable particles, recommended)<br>3 mg/m <sup>3</sup> (respirable particles, recommended)                                                                                                                 |
| <b>New Brunswick</b>                                                 | OEL TWA (mg/m <sup>3</sup> )        | 3 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)<br>10 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica, inhalable fraction) |
| <b>Newfoundland &amp; Labrador</b>                                   | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (inhalable particles, recommended)<br>3 mg/m <sup>3</sup> (respirable particles, recommended)                                                                                                                 |
| <b>Nova Scotia</b>                                                   | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (inhalable particles, recommended)<br>3 mg/m <sup>3</sup> (respirable particles, recommended)                                                                                                                 |
| <b>Nunavut</b>                                                       | OEL TWA (mg/m <sup>3</sup> )        | 5 mg/m <sup>3</sup> (respirable mass)<br>10 mg/m <sup>3</sup> (total mass)                                                                                                                                                         |
| <b>Northwest Territories</b>                                         | OEL STEL (mg/m <sup>3</sup> )       | 20 mg/m <sup>3</sup> (insoluble or poorly soluble-inhalable fraction)<br>6 mg/m <sup>3</sup> (insoluble or poorly soluble-respirable fraction)                                                                                     |
| <b>Northwest Territories</b>                                         | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (insoluble or poorly soluble-inhalable fraction)<br>3 mg/m <sup>3</sup> (insoluble or poorly soluble-respirable fraction)                                                                                     |
| <b>Ontario</b>                                                       | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (inhalable)<br>3 mg/m <sup>3</sup> (respirable)                                                                                                                                                               |
| <b>Prince Edward Island</b>                                          | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (inhalable particles, recommended)<br>3 mg/m <sup>3</sup> (respirable particles, recommended)                                                                                                                 |
| <b>Québec</b>                                                        | VEMP (mg/m <sup>3</sup> )           | 10 mg/m <sup>3</sup> (including dust, inert or nuisance particulates-total dust)                                                                                                                                                   |
| <b>Saskatchewan</b>                                                  | OEL STEL (mg/m <sup>3</sup> )       | 20 mg/m <sup>3</sup> (insoluble or poorly soluble-inhalable fraction)<br>6 mg/m <sup>3</sup> (insoluble or poorly soluble-respirable fraction)                                                                                     |
| <b>Saskatchewan</b>                                                  | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (insoluble or poorly soluble-inhalable fraction)<br>3 mg/m <sup>3</sup> (insoluble or poorly soluble-respirable fraction)                                                                                     |

### 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. Proper grounding procedures to avoid static electricity should be followed.

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**Materials for Protective Clothing:** Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves.

**Eye 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                             | : Grainy off-white paste with mild odor |
| Odor                                   | : Mild                                  |
| Odor Threshold                         | : Not available                         |
| pH                                     | : Not available                         |
| Evaporation Rate                       | : Not available                         |
| Melting Point                          | : Not available                         |
| Freezing Point                         | : Not available                         |
| Boiling Point                          | : Not available                         |
| Flash Point                            | : > 230 °F (110 °C)                     |
| Auto-ignition Temperature              | : Not available                         |
| Decomposition Temperature              | : Not available                         |
| Flammability (solid, gas)              | : Not available                         |
| Lower Flammable Limit                  | : Not available                         |
| Upper Flammable Limit                  | : Not available                         |
| Vapor Pressure                         | : Not available                         |
| Relative Vapor Density at 20°C         | : Not available                         |
| Relative Density                       | : Not available                         |
| Specific gravity / density             | : 1.3 g/ml                              |
| Specific Gravity                       | : Not available                         |
| Solubility                             | : Not available                         |
| Partition Coefficient: N-Octanol/Water | : Not available                         |
| Viscosity                              | : Not available                         |

### SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** This material contains an organic peroxide. Heating may cause hazardous decomposition. Hazardous decomposition products from peroxides are flammable and can be explosive under confinement.
- 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. Sparks, heat, open flame and other sources of ignition. Dust accumulation (to minimize explosion hazard). UV light sources.
- 10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers, amines, active metals, ammonia, combustible materials, reducing agents, pure oxygen, oxygen scavengers, peroxides.
- 10.6. Hazardous Decomposition Products:** Toxic gases may be formed, fluoride compounds, silicon oxides, carbon oxides (CO, CO<sub>2</sub>), phenolic compounds, acrid smoke, hydrogen.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

**LD50 and LC50 Data:** Not available

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

**Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified.

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

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** May cause respiratory irritation.

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Irritation of the respiratory tract and the other mucous membranes.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

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

#### 11.2. Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

|                                                                 |                             |
|-----------------------------------------------------------------|-----------------------------|
| <b>Polyethylene glycol (25322-68-3)</b>                         |                             |
| <b>LD50 Oral Rat</b>                                            | 47000 mg/kg                 |
| <b>LD50 Dermal Rabbit</b>                                       | > 20 ml/kg                  |
| <b>ATE US/CA (oral)</b>                                         | 47,000.00 mg/kg body weight |
| <b>Silica, amorphous, fumed, crystalline-free (112945-52-5)</b> |                             |
| <b>LD50 Oral Rat</b>                                            | 3160 mg/kg                  |
| <b>ATE US/CA (oral)</b>                                         | 3,160.00 mg/kg body weight  |
| <b>Cumene hydroperoxide (80-15-9)</b>                           |                             |
| <b>LD50 Oral Rat</b>                                            | 382 mg/kg                   |
| <b>LD50 Dermal Rabbit</b>                                       | 0.126 ml/kg                 |
| <b>LC50 Inhalation Rat</b>                                      | 220 ppm/4h                  |
| <b>LC50 Inhalation Rat</b>                                      | 1.4 mg/l/4h                 |
| <b>ATE US/CA (oral)</b>                                         | 382.00 mg/kg body weight    |
| <b>ATE US/CA (dermal)</b>                                       | 1,100.00 mg/kg body weight  |
| <b>ATE US/CA (gas)</b>                                          | 220.00 ppmV/4h              |
| <b>ATE US/CA (vapors)</b>                                       | 3.00 mg/l/4h                |

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|                                                          |                                               |
|----------------------------------------------------------|-----------------------------------------------|
| ATE US/CA (dust, mist)                                   | 0.50 mg/l/4h                                  |
| Titanium dioxide (13463-67-7)                            |                                               |
| LD50 Oral Rat                                            | > 10000 mg/kg                                 |
| Polytetrafluoroethylene (9002-84-0)                      |                                               |
| IARC Group                                               | 3                                             |
| Silica, amorphous, fumed, crystalline-free (112945-52-5) |                                               |
| IARC Group                                               | 3                                             |
| Titanium dioxide (13463-67-7)                            |                                               |
| IARC Group                                               | 2B                                            |
| OSHA Hazard Communication Carcinogen List                | In OSHA Hazard Communication Carcinogen list. |

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

**Ecology - General:** May cause long lasting harmful effects to aquatic life.

|                                |                                                                        |
|--------------------------------|------------------------------------------------------------------------|
| Cumene hydroperoxide (80-15-9) |                                                                        |
| LC50 Fish 1                    | 3.9 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |

**12.2. Persistence and Degradability**

|                               |                                                         |
|-------------------------------|---------------------------------------------------------|
| SWAK™                         |                                                         |
| Persistence and Degradability | May cause long-term adverse effects in the environment. |

**12.3. Bioaccumulative Potential**

|                                |                  |
|--------------------------------|------------------|
| SWAK™                          |                  |
| Bioaccumulative Potential      | Not established. |
| Cumene hydroperoxide (80-15-9) |                  |
| BCF Fish 1                     | 35.5             |

**12.4. Mobility in Soil** Not available

**12.5. Other Adverse Effects**

**Other Information:** Avoid release to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**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**

- 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  
**14.4. In Accordance with TDG** Not regulated for transport

**SECTION 15: REGULATORY INFORMATION****15.1. US Federal Regulations**

|                                                                           |                                 |
|---------------------------------------------------------------------------|---------------------------------|
| SWAK™                                                                     |                                 |
| SARA Section 311/312 Hazard Classes                                       | Immediate (acute) health hazard |
| Polytetrafluoroethylene (9002-84-0)                                       |                                 |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                 |
| Nonanedioic acid, polymer with 1,2-propanediol (29408-67-1)               |                                 |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                 |
| Polyethylene glycol (25322-68-3)                                          |                                 |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                 |



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|                                                                                                                                                    |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>Cumene hydroperoxide (80-15-9)</b>                                                                                                              |       |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                                                          |       |
| Subject to reporting requirements of United States SARA Section 313                                                                                |       |
| <b>SARA Section 313 - Emission Reporting</b>                                                                                                       | 1.0 % |
| <b>Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]- (41637-38-1)</b> |       |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                                                          |       |
| <b>Titanium dioxide (13463-67-7)</b>                                                                                                               |       |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                                                          |       |

### 15.2. US State Regulations

|                                                                                                                               |                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Titanium dioxide (13463-67-7)</b>                                                                                          |                                                                                            |
| <b>U.S. - California - Proposition 65 - Carcinogens List</b>                                                                  | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| <b>Polytetrafluoroethylene (9002-84-0)</b>                                                                                    |                                                                                            |
| RTK - U.S. - Pennsylvania - RTK (Right to Know) List                                                                          |                                                                                            |
| U.S. - Texas - Effects Screening Levels - Long Term                                                                           |                                                                                            |
| U.S. - Texas - Effects Screening Levels - Short Term                                                                          |                                                                                            |
| <b>Polyethylene glycol (25322-68-3)</b>                                                                                       |                                                                                            |
| U.S. - Minnesota - Hazardous Substance List                                                                                   |                                                                                            |
| U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour                                   |                                                                                            |
| U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual                                    |                                                                                            |
| U.S. - Texas - Effects Screening Levels - Long Term                                                                           |                                                                                            |
| U.S. - Texas - Effects Screening Levels - Short Term                                                                          |                                                                                            |
| <b>Silica, amorphous, fumed, crystalline-free (112945-52-5)</b>                                                               |                                                                                            |
| U.S. - Texas - Effects Screening Levels - Long Term                                                                           |                                                                                            |
| U.S. - Texas - Effects Screening Levels - Short Term                                                                          |                                                                                            |
| <b>Cumene hydroperoxide (80-15-9)</b>                                                                                         |                                                                                            |
| U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)                                                             |                                                                                            |
| U.S. - Colorado - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues     |                                                                                            |
| U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities                                           |                                                                                            |
| U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities                                                    |                                                                                            |
| U.S. - Louisiana - Reportable Quantity List for Pollutants                                                                    |                                                                                            |
| U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1            |                                                                                            |
| U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2            |                                                                                            |
| U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity                                                    |                                                                                            |
| U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1                   |                                                                                            |
| U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2                   |                                                                                            |
| RTK - U.S. - Massachusetts - Right To Know List                                                                               |                                                                                            |
| U.S. - Massachusetts - Toxics Use Reduction Act                                                                               |                                                                                            |
| U.S. - Michigan - Polluting Materials List                                                                                    |                                                                                            |
| U.S. - Michigan - Process Safety Management Highly Hazardous Chemicals                                                        |                                                                                            |
| U.S. - Minnesota - Chemicals of High Concern                                                                                  |                                                                                            |
| U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances                                                       |                                                                                            |
| U.S. - New Jersey - Environmental Hazardous Substances List                                                                   |                                                                                            |
| RTK - U.S. - New Jersey - Right to Know Hazardous Substance List                                                              |                                                                                            |
| U.S. - New Jersey - Special Health Hazards Substances List                                                                    |                                                                                            |
| U.S. - New Jersey - TPCA - Extraordinarily Hazardous Substances (EHS)                                                         |                                                                                            |
| U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances                                               |                                                                                            |
| U.S. - North Dakota - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues |                                                                                            |
| RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List                                                   |                                                                                            |

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RTK - U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Texas - Effects Screening Levels - Long Term  
 U.S. - Texas - Effects Screening Levels - Short Term  
 U.S. - Washington - Dangerous Waste - Discarded Chemical Products List  
 U.S. - Wyoming - Process Safety Management - Highly Hazardous Chemicals

### **Titanium dioxide (13463-67-7)**

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)  
 U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)  
 U.S. - Idaho - Occupational Exposure Limits - TWAs  
 U.S. - Illinois - Toxic Air Contaminant Carcinogens  
 RTK - U.S. - Massachusetts - Right To Know List  
 U.S. - Michigan - Occupational Exposure Limits - TWAs  
 U.S. - Minnesota - Chemicals of High Concern  
 U.S. - Minnesota - Hazardous Substance List  
 U.S. - Minnesota - Permissible Exposure Limits - TWAs  
 U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
 U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
 RTK - U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - New York - Occupational Exposure Limits - TWAs  
 U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour  
 U.S. - Oregon - Permissible Exposure Limits - TWAs  
 U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups  
 RTK - U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Tennessee - Occupational Exposure Limits - TWAs  
 U.S. - Texas - Effects Screening Levels - Long Term  
 U.S. - Texas - Effects Screening Levels - Short Term  
 U.S. - Vermont - Permissible Exposure Limits - TWAs  
 U.S. - Washington - Permissible Exposure Limits - STELs  
 U.S. - Washington - Permissible Exposure Limits - TWAs

### **Particulates not otherwise classified (PNO) (Not applicable)**

U.S. - Idaho - Occupational Exposure Limits - Mineral Dusts  
 U.S. - Idaho - Occupational Exposure Limits - TWAs  
 U.S. - Michigan - Occupational Exposure Limits - TWAs  
 U.S. - Minnesota - Permissible Exposure Limits - TWAs  
 U.S. - New York - Occupational Exposure Limits - TWAs  
 U.S. - Oregon - Permissible Exposure Limits - Mineral Dusts  
 U.S. - Oregon - Permissible Exposure Limits - TWAs  
 U.S. - Tennessee - Occupational Exposure Limits - TWAs  
 U.S. - Vermont - Permissible Exposure Limits - TWAs  
 U.S. - Washington - Permissible Exposure Limits - STELs  
 U.S. - Washington - Permissible Exposure Limits - TWAs

## **15.3. Canadian Regulations**

### **Polytetrafluoroethylene (9002-84-0)**

Listed on the Canadian DSL (Domestic Substances List)

### **Nonanedioic acid, polymer with 1,2-propanediol (29408-67-1)**

Listed on the Canadian DSL (Domestic Substances List)

### **Polyethylene glycol (25322-68-3)**

Listed on the Canadian DSL (Domestic Substances List)

### **Cumene hydroperoxide (80-15-9)**

Listed on the Canadian DSL (Domestic Substances List)

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**Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]-(41637-38-1)**

Listed on the Canadian DSL (Domestic Substances List)

**Titanium dioxide (13463-67-7)**

Listed on the Canadian DSL (Domestic Substances List)

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

**Revision Date** : 04/18/2016

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR).

### GHS Full Text Phrases:

|      |                                                        |
|------|--------------------------------------------------------|
| H315 | Causes skin irritation                                 |
| H317 | May cause an allergic skin reaction                    |
| H319 | Causes serious eye irritation                          |
| H335 | May cause respiratory irritation                       |
| H413 | May cause long lasting harmful effects to aquatic life |

*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.*

NA GHS SDS 2015