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

Manufacturer
Swagelok Manufacturing Company, LLC
29495 F.A. Lennon Drive
Solon, Ohio 44139
440-519-4000
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):

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).


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.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Country</th>
<th>Control Parameter</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polytetrafluoroethylene (9002-84-0)</td>
<td>Québec</td>
<td>VEMP (mg/m³)</td>
<td>2.5 mg/m³ (decomposition products)</td>
</tr>
<tr>
<td>Polyethylene glycol (25322-68-3)</td>
<td>USA AIHA</td>
<td>WEEL TWA (mg/m³)</td>
<td>10 mg/m³ (MW&gt;200, aerosol)</td>
</tr>
<tr>
<td>Cumene hydroperoxide (80-15-9)</td>
<td>USA AIHA</td>
<td>WEEL TWA (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td></td>
<td>USA AIHA</td>
<td>ACGIH chemical category</td>
<td>skin notation</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>Mexico</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Mexico</td>
<td>OEL STEL (mg/m³)</td>
<td>20 mg/m³</td>
</tr>
<tr>
<td></td>
<td>USA ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>USA ACGIH</td>
<td>ACGIH chemical category</td>
<td>Not Classifiable as a Human Carcinogen</td>
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<tr>
<td></td>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>15 mg/m³ (total dust)</td>
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<tr>
<td></td>
<td>USA IDLH</td>
<td>US IDLH (mg/m³)</td>
<td>5000 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Alberta</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>British Colombia</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³ (total dust)</td>
</tr>
<tr>
<td></td>
<td>Manitoba</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>New Brunswick</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Newfoundland &amp; Labrador</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Nova Scotia</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Nunavut</td>
<td>OEL TWA (mg/m³)</td>
<td>5 mg/m³ (respirable mass)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10 mg/m³ (total mass)</td>
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<tr>
<td></td>
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<td>OEL STEL (mg/m³)</td>
<td>20 mg/m³</td>
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<tr>
<td></td>
<td>Northwest Territories</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Ontario</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>
### 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).

<table>
<thead>
<tr>
<th>Province/Estate</th>
<th>OEL TWA (mg/m³)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prince Edward Island</td>
<td>10 mg/m³</td>
<td>(total)</td>
</tr>
<tr>
<td>Québec</td>
<td>10 mg/m³ (containing no Asbestos and &lt;1% Crystalline silica - total dust)</td>
<td></td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>20 mg/m³</td>
<td>(insoluble or poorly soluble - inhalable fraction)</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>10 mg/m³</td>
<td>(insoluble or poorly soluble - respirable fraction)</td>
</tr>
<tr>
<td>Yukon</td>
<td>30 mppcf</td>
<td></td>
</tr>
<tr>
<td>Yukon</td>
<td>10 mg/m³</td>
<td>(total mass)</td>
</tr>
</tbody>
</table>

### Particulates not otherwise classified (PNOC) (Not applicable)

<table>
<thead>
<tr>
<th>Country</th>
<th>OEL TWA (mg/m³)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
<td>3 mg/m³</td>
<td>Respirable fraction</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>10 mg/m³</td>
<td>Total Dust</td>
</tr>
<tr>
<td>Alberta</td>
<td>10 mg/m³ (total)</td>
<td></td>
</tr>
<tr>
<td>British Columbia</td>
<td>3 mg/m³ (respirable fraction)</td>
<td></td>
</tr>
<tr>
<td>Manitoba</td>
<td>10 mg/m³</td>
<td>(inhalable particles, recommended)</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>3 mg/m³ (particulate matter containing no Asbestos and &lt;1% Crystalline silica, respirable fraction)</td>
<td></td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador</td>
<td>10 mg/m³ (inhalable particles, recommended)</td>
<td></td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>3 mg/m³ (respirable particles, recommended)</td>
<td></td>
</tr>
<tr>
<td>Nunavut</td>
<td>5 mg/m³ (respirable mass)</td>
<td></td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>20 mg/m³ (insoluble or poorly soluble - inhalable fraction)</td>
<td></td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>6 mg/m³ (insoluble or poorly soluble - respirable fraction)</td>
<td></td>
</tr>
<tr>
<td>Ontario</td>
<td>10 mg/m³ (insoluble or poorly soluble - inhalable fraction)</td>
<td></td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>3 mg/m³ (insoluble or poorly soluble - respirable fraction)</td>
<td></td>
</tr>
<tr>
<td>Québec</td>
<td>10 mg/m³ (including dust, inert or nuisance particulates - total dust)</td>
<td></td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>20 mg/m³ (insoluble or poorly soluble - inhalable fraction)</td>
<td></td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>6 mg/m³ (insoluble or poorly soluble - respirable fraction)</td>
<td></td>
</tr>
</tbody>
</table>

### 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.

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, CO2), 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)**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50 Oral Rat</th>
<th>LD50 Dermal Rabbit</th>
<th>ATE US/CA (oral)</th>
<th>ATE US/CA (oral)</th>
<th>ATE US/CA (oral)</th>
<th>ATE US/CA (oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene glycol (25322-68-3)</td>
<td>47000 mg/kg</td>
<td>&gt; 20 ml/kg</td>
<td>47,000.00 mg/kg body weight</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Silica, amorphous, fumed, crystalline-free (112945-52-5)</td>
<td>3160 mg/kg</td>
<td></td>
<td>3,160.00 mg/kg body weight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cumene hydroperoxide (80-15-9)</td>
<td>382 mg/kg</td>
<td>0.126 ml/kg</td>
<td>220 ppm/4h</td>
<td>1.4 mg/l/4h</td>
<td>382.00 mg/kg body weight</td>
<td>1,100.00 mg/kg body weight</td>
</tr>
<tr>
<td></td>
<td>220.00 ppmV/4h</td>
<td>220.00 ppmV/4h</td>
<td>3.00 mg/l/4h</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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).

<table>
<thead>
<tr>
<th>Substance/Mixture</th>
<th>Concentration/Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US/CA (dust, mist)</td>
<td>0.50 mg/l/4h</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td></td>
</tr>
<tr>
<td>LD50 Oral Rat</td>
<td>&gt; 10000 mg/kg</td>
</tr>
<tr>
<td>Polytetrafluoroethylene (9002-84-0)</td>
<td></td>
</tr>
<tr>
<td>IARC Group</td>
<td>3</td>
</tr>
<tr>
<td>Silica, amorphous, fumed, crystalline-free (112945-52-5)</td>
<td></td>
</tr>
<tr>
<td>IARC Group</td>
<td>3</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td></td>
</tr>
<tr>
<td>OSHA Hazard Communication Carcinogen List</td>
<td>In OSHA Hazard Communication Carcinogen list.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Safety Data Sheet</th>
<th>Right To Know List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td>WARNING: This product contains chemicals known to the State of California to cause cancer.</td>
</tr>
<tr>
<td>Subject to reporting requirements of United States SARA Section 313</td>
<td></td>
</tr>
<tr>
<td><strong>SARA Section 313 - Emission Reporting</strong></td>
<td>1.0 %</td>
</tr>
</tbody>
</table>

| Polyoxy-(1,2-ethanediyl), alpha,.alpha.-[(1-methylethylidene)di-4,1-phenylene]bis.[omega.-{(2-methyl-1-oxo-2-propenyl)oxy}-(4163-38-1)] | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

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

<table>
<thead>
<tr>
<th>Right To Know List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

### 15.2. US State Regulations

#### U.S. - California - Proposition 65 - Carcinogens List

- **Silica, amorphous, fumed, crystalline-free (112945-52-5)**
  - U.S. - Texas - Effects Screening Levels - Long Term
  - U.S. - Texas - Effects Screening Levels - Short Term

- **Polytetrafluoroethyleneind (9002-84-0)**
  - 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

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

- **Cumene hydroperoxide (80-15-9)**
  - 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 - 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 - TCPA - 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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04/18/2016 **EN (English US)** 9/11
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).

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 (PNOC) (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)

**Nonanedioc 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)
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha. '-[(1-methylene)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
Regulations (HPR).

GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>PHRASE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H413</td>
<td>May cause long lasting harmful effects to aquatic life</td>
</tr>
</tbody>
</table>

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