

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture  
 Product Name : SWAK™

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial. For professional use only  
 Use of the substance/mixture : Anaerobic pipe thread sealant

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

#### 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

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315  
 Eye Irrit. 2 H319  
 Skin Sens. 1 H317  
 STOT SE 3 H335  
 Aquatic Chronic 4 H413

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

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Warning

Hazard statements (CLP) :

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 (CLP) :

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**

Other hazards not contributing to the classification : 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.

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

**3.2. Mixture**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polytetrafluoroethylene	(CAS No) 9002-84-0 (EC no) 618-337-2	30 - 40	Not classified
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 (EC no) 609-946-4	30 - 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 4, H413
Polyethylene glycol	(CAS No) 25322-68-3 (EC no) 500-038-2	1 - 5	STOT SE 3, H335
Titanium dioxide	(CAS No) 13463-67-7 (EC no) 236-675-5	1 - 5	Carc. 2, H351
Silica, amorphous, fumed, crystalline-free	(CAS No) 112945-52-5 (EC no) 601-216-3	< 1	Not classified
Cumene hydroperoxide	(CAS No) 80-15-9 (EC no) 201-254-7 (EC index no) 617-002-00-8	< 1	Org. Perox. E, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Chronic 2, H411
Particulates not otherwise regulated (PNOR)	(CAS No) Not applicable		Not classified

**Specific concentration limits:**

Name	Product identifier	Specific concentration limits
Cumene hydroperoxide	(CAS No) 80-15-9 (EC no) 201-254-7 (EC index no) 617-002-00-8	(C < 10) STOT SE 3, H335 ( 1 =<C < 3) Eye Irrit. 2, H319 ( 3 =<C < 10) Eye Dam. 1, H318 ( 3 =<C < 10) Skin Irrit. 2, H315 (C >= 10) Skin Corr. 1B, H314

Full text of H-statements: see section 16

**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 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical 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 eye irritation. Causes skin irritation. May cause respiratory irritation. Skin sensitisation.
- 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.

**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: Firefighting 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.
- Hazardous decomposition products in case of fire : At high temperature may liberate toxic gases. fluoride compounds. Hydrogen. Carbon oxides (CO, CO<sub>2</sub>). Phenolic compounds. acrid vapors.

**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.
- 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 : 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 responders**

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 material 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 products : 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**

Polyethylene glycol (25322-68-3)		
Austria	MAK (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup> (average molecular weight 200-400-inhalable fraction)
Austria	MAK Short time value (mg/m <sup>3</sup> )	4000 mg/m <sup>3</sup> (average molecular weight 200-400-inhalable fraction)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, average molecular weight 200-400-inhalable fraction)
Switzerland	VME (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup> (average MW 200-600)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	8000 mg/m <sup>3</sup>

<b>Polyethylene glycol (25322-68-3)</b>		
Slovenia	OEL TWA (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup> (average MW 200-400-inhalable fraction)
Slovenia	OEL STEL (mg/m <sup>3</sup> )	4000 mg/m <sup>3</sup> (average MW 200-400-inhalable fraction)
<b>Silica, amorphous, fumed, crystalline-free (112945-52-5)</b>		
Austria	MAK (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> (inhalable fraction)
Switzerland	VME (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> (inhalable dust)
<b>Cumene hydroperoxide (80-15-9)</b>		
Latvia	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Lithuania	OEL chemical category (LT)	Skin notation
<b>Titanium dioxide (13463-67-7)</b>		
Austria	MAK (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (alveolar dust, respirable fraction)
Austria	MAK Short time value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (alveolar dust, respirable fraction)
Belgium	Limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	10,0 mg/m <sup>3</sup> (respirable dust)
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust) 4 mg/m <sup>3</sup> (respirable dust)
France	VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Greece	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable fraction) 5 mg/m <sup>3</sup> (respirable fraction)
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Latvia	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Switzerland	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable dust)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total inhalable) 4 mg/m <sup>3</sup> (respirable)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup> (calculated-total inhalable) 12 mg/m <sup>3</sup> (calculated-respirable)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Estonia	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total inhalable dust) 4 mg/m <sup>3</sup> (respirable dust)
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup> (calculated-total inhalable dust) 12 mg/m <sup>3</sup> (calculated-respirable dust)
Lithuania	IPRV (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Norway	Grænseverdier (AN) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Norway	Grænseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Poland	NDS (mg/m <sup>3</sup> )	10,0 mg/m <sup>3</sup> (<2% free crystalline silica and containing no asbestos-inhalable fraction)
Romania	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (total dust)
Portugal	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen
<b>Particulates not otherwise regulated (PNOR) (Not applicable)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (alveolar fraction) 10 mg/m <sup>3</sup> (inhalable fraction)

<b>Particulates not otherwise regulated (PNOR) (Not applicable)</b>		
France	VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (restrictive limit) 5 mg/m <sup>3</sup> (restrictive limit)
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> Respirable fraction 10 mg/m <sup>3</sup> Total Dust
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (recommended limit-inhalable fraction) 3 mg/m <sup>3</sup> (recommended limit-respirable fraction)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total inhalable) 4 mg/m <sup>3</sup> (respirable)
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup> (calculated-total inhalable) 12 mg/m <sup>3</sup> (calculated-respirable)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
Norway	Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (total dust) 10 mg/m <sup>3</sup> (respirable dust)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Portugal	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable fraction, particulate matter containing no Asbestos and <1% Crystalline silica) 3 mg/m <sup>3</sup> (respirable fraction, particulate matter containing no Asbestos and <1% Crystalline silica)

**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.

Personal protective equipment

: 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
Colour	: No data available
Odour	: Mild
Odour threshold	: No data available
pH	: No data available
Evaporation rate	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 230 °F (110 °C)

Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 1,3 g/ml
Solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

**9.2. Other information**

No additional information 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**

Acute toxicity : Not classified

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

LD50 oral rat	47000 mg/kg
LD50 dermal rabbit	> 20 ml/kg
ATE CLP (oral)	47.000,00 mg/kg bodyweight

**Silica, amorphous, fumed, crystalline-free (112945-52-5)**

LD50 oral rat	3160 mg/kg
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**Cumene hydroperoxide (80-15-9)**

LD50 oral rat	382 mg/kg
LD50 oral	382 mg/kg
LD50 dermal rabbit	0,126 ml/kg
LD50 dermal	530 mg/kg
LC50 inhalation rat (ppm)	220 ppm/4h
LC50 inhalation rat (Dust/Mist - mg/l/4h)	1,4 mg/l/4h

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

LD50 oral rat	> 10000 mg/kg
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Skin corrosion/irritation : Causes skin irritation.  
Causes skin irritation

Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified.

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

IARC group	3
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**Silica, amorphous, fumed, crystalline-free (112945-52-5)**

IARC group	3
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**Titanium dioxide (13463-67-7)**

IARC group	2B
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Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
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.
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

**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])
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**12.2. Persistence and degradability**

**SWAK™**

Persistence and degradability	May cause long-term adverse effects in the environment.
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**12.3. Bioaccumulative potential**

**SWAK™**

Bioaccumulative potential	Not established.
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**Cumene hydroperoxide (80-15-9)**

BCF fish 1	35,5
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**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Other adverse effects**

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.

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**

In accordance with ADR / RID / IMDG / IATA / ADN



ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated for transport				
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

**14.6. Special precautions for user**

No additional information available

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Polyethylene glycol - Cumene hydroperoxide - Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]-
3.a. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Cumene hydroperoxide
3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	SWAK™ - Cumene hydroperoxide - Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]-
3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	SWAK™ - Cumene hydroperoxide - Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]-

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**15.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16: Other information**

Revision date : 05/04/2016  
 Data sources : According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

## Full text of H- and EUH-statements:

Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Org. Perox. E	Organic Peroxides, Type E
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H242	Heating may cause a fire
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

EU GHS SDS

*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.*