

## 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

## 1.2.2. Uses advised against

No additional information available
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1.3. Details of the supplier of the safety data sheet

· · · · · · · · · · · · · · · · · · ·		
Swagelok	Supplier:	Swagelok London
29495 F.A. Lennon Drive		Kingley Park, Station Road, Kings Langley, Herts
44139 Solon, OH - United States		UK, WD4 8GW
T 440-349-5600 - F 440-519-3304		T +44 (0) 1923 272000
www.swagelok.com		london.swagelok.com
1.4 Emergency telephone number		

#### 1.4. Emergency telephone number

Emergency number

: Infotrac: North America: 1-800-535-5053 International: 1-352-323-3500

#### **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

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

Organic Peroxide Category E	H242
Skin corrosion/irritation Category 2	H315
Serious eye damage/eye irritation Category 2	H319
Skin sensitization, Category 1	H317
Specific target organ toxicity (single exposure) Category 3	H335
Hazardous to the aquatic environment - Chronic Hazard Category 4	H413
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP)

	GHS02 GHS07
Signal word (CLP)	: Warning
Hazardous ingredients	: Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega[(2-methyl-1-oxo-2-propenyl)oxy]-; Polyethylene glycol; Cumene hydroperoxide
Hazard statements (CLP)	<ul> <li>H242 - Heating may cause a fire.</li> <li>H315 - Causes skin irritation</li> <li>H317 - May cause an allergic skin reaction</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> <li>H413 - May cause long lasting harmful effects to aquatic life</li> </ul>
Precautionary statements (CLP)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P234 - Keep only in original packaging.</li> <li>P240 - Ground and bond container and receiving equipment.</li> <li>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> </ul>
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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

		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 personal protective equipment (PPE).
		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 CENTRE or doctor if you feel unwell.
		P321 - Specific treatment (see supplemental first aid instruction)
		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.
		P370+P378 - In case of fire: Use media other than water to extinguish.
		P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
		P405 - Store locked up.
		P410 - Protect from sunlight.
		P411 - Store at temperatures not exceeding 482°F/250°C.
		P420 - Store separately.
		P501 - Dispose of contents/container to hazardous or special waste collection point, in
		accordance with local, regional, national and/or international regulation.
2.3.	Other hazards	
	hazards not contributing to the fication	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. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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	Not classified	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	20 - 30	Not classified	STOT SE 3, H335
Cumene hydroperoxide	(CAS-No.) 80-15-9 (EC-No.) 201-254-7 (EC Index-No.) 617-002-00- 8	<= 1	Not classified	Org. Perox. E, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation:dust,mist). H331 Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Chronic 2, H411

opecine concentration minus.			
Name	Product identifier	Specific concentration limits: DSD/DPD	Specific concentration limits: CLP
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 2,="" 3)="" <="" eye="" h319<br="" irrit.="">(3 =<c 1,="" 10)="" <="" dam.="" eye="" h318<br="">(3 =<c 10)="" 2,="" <="" h315<br="" irrit.="" skin="">(C &gt;= 10) Skin Corr. 1B, H314</c></c></c>

Full text of R- and H- phrases: 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).

3	CH) with its amendment Regulation (EU) 2015/830
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash with plenty of soap and water. water. Wash contaminated clothing before reuse. Specific treatment (see first aid measures on this label). If skin irritation or rash occurs: seek medical attention.
First-aid measures after eye contact	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</li> </ul>
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects after inhalation	: May cause an allergic skin reaction. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
<b>4.3.</b> Indication of any immediate me No additional information available	dical attention and special treatment needed
SECTION 5: Firefighting measure	es
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from th	e 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.
.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release n	neasures
6.1. Personal precautions, protectiv	e 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	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions Prevent entry to sewers and public waters.	Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for conta	inment and cleaning up
Methods for cleaning up	<ul> <li>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collec spillage. Store away from other materials.</li> </ul>
6.4. Reference to other sections See Heading 8. Exposure controls and pers	onal protection.
SECTION 7: Handling and storag	
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
Precautions for safe handling	products from peroxides are flammable and can be explosive under confinement. Inhalation c

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing vapor, mist or spray. Use only outdoors or in a well-ventilated area. Avoid dust formation.

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Hygiene measures	: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe stor	age, including any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : children. Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Strong acids, strong bases, strong oxidizers, amines, active metals, ammonia, combustible materials, reducing agents, pure oxygen, oxygen scavengers, peroxides.
Storage area	: Store in a cool, dry, ventilated area, away from incompatible substances. Keep from freezing.

#### 7.3. Specific end use(s)

No additional information available

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

No additional information available

#### 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:

Avoid all unnecessary exposure.

#### Materials for protective clothing:

Impervious clothing

#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses

#### 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.

#### Environmental exposure controls:

Avoid release to the environment. Avoid creating or spreading dust.

#### Other information:

Do not eat, drink or smoke during use.

# **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.
Color	: Colorless.
Odor	: Low odor.
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 230 °F
Auto-ignition temperature	: No data available

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Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.3 g/ml
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion 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 normal conditions of use.

#### 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

Acute toxicity

: Not classified

Polyethylene glycol (25322-68-3)	
LD50 oral rat	22 g/kg
LD50 dermal rabbit	> 20 g/kg
Cumene hydroperoxide (80-15-9)	
LD50 oral rat	382 mg/kg
LD50 dermal rabbit	0.126 ml/kg
LC50 inhalation rat (ppm)	220 ppm/4h
Irritation	: Not classified
Corrosivity	: Not classified
Sensitization	: Not classified
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Toxicity for reproduction	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
Ecology - water	: May cause long lasting harmful effects to aquatic life.

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Aquatic acute	: Not classified	
Aquatic chronic	: 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])	
2.2. Persistence and degradability		

# 12.3. Bioaccumulative potential

Persistence and degradability

SWAK		
Bioaccumulative potential	Not established.	
Polyethylene glycol (25322-68-3)		
Bioaccumulative potential	Not established.	
Cumene hydroperoxide (80-15-9)		
BCF fish 1	35.5	

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

Additional information

: Avoid release to the environment.

Not established.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

 Product/Packaging disposal recommendations
 : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to meet all regulations.

 Ecology - waste materials
 : Avoid release to the environment.

# **SECTION 14: Transport information**

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

14.1. UN number		
UN-No. (ADR)	:	Not applicable
UN-No. (IMDG)	:	Not applicable
UN-No. (IATA)	:	Not applicable
UN-No. (ADN)	:	Not applicable
UN-No. (RID)	:	Not applicable
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	:	Not applicable
Proper Shipping Name (IMDG)	:	Not applicable
Proper Shipping Name (IATA)	:	Not applicable
Proper Shipping Name (ADN)	:	Not applicable
Proper Shipping Name (RID)	:	Not applicable
14.3. Transport hazard class(es)		
ADR		
Transport hazard class(es) (ADR)	:	Not applicable
IMDG		
Transport hazard class(es) (IMDG)	:	Not applicable
1474		
		Networkship
Transport hazard class(es) (IATA)	:	Not applicable
ADN		

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Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Not Evaluated

### - Transport by sea Not Evaluated

- Air transport

Not Evaluated

# - Inland waterway transport

Not Evaluated

# - Rail transport

Not Evaluated

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

Contains no REACH substances with Annex XVII restrictions Contains no REACH candidate substance Contains no REACH Annex XIV 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**

Other information

: None.

Full text of R-, H- and EUH-phrases:	
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation: dust, mist) 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
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Org. Perox. E	Organic Peroxide Category E
Skin Corr. 1B	Skin corrosion/irritation Category 1B

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Skin Irrit. 2	Skin corrosion/irritation Category 2	
Skin Sens. 1	Skin sensitization, Category 1	
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
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	
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	

## SDS EU (REACH Annex II)

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.