



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006 as amended by  
Regulation (EU) No. 2020/878

Revision Date 06-Sep-2024

Version 2

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

### 1.1. Product identifier

**Product Code** 68050  
**Product Name** BEARING MOUNT FOR RELAXED FITS 50ML

### Other means of identification

**Unique Formula Identifier (UFI)** JCPH-U03Q-700W-XWMF  
Mixture. Contains DIMETHYLBENZYL HYDROPEROXIDE; MALEIC ACID; CUMENE

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

**Recommended Use** Adhesive  
**Uses advised against** No information available

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

<b>Manufacturer</b>	<b>Only Representative (OR)</b>
ITW Permatex, Inc. 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502	ITW Permatex, Inc. Bay 150 Shannon Industrial Estate Co. Clare Ireland V14 DF82 353(61)771500 353(61)471285 customerservice.shannon@itwpp.com

### For further information, please contact

**Contact Point** ITW Permatex, Inc.  
6875 Parkland Blvd.  
Solon, Ohio 44139 USA  
Telephone: 1-87-Permatex  
(866) 732-9502

**E-mail address:** mail@permatex.com

**Non-Emergency Telephone Number** 866-732-9502

### 1.4. Emergency telephone number

24-hour emergency phone number EU Member States information as follows:

24-hour emergency phone number - §45 - (EC)1272/2008	
Europe	112
Austria	01 406 43 43

Belgium	070 245 245
Bulgaria	+359 2 9154 233
Croatia	+3851 2348 342
Cyprus	1401
Czech Republic	+420 224 919 293/ +420 224 915 402
Denmark	+ 45 8212 1212
Estonia	16662/ (+372) 7943 794
Finland	0800 147 111/ 09 471 977
France	+33 (0)1 45 42 59 59
Germany	+49 228 192 40
Greece	(003) 2107793777
Hungary	+36 80 201 199
Iceland	543 2222
Ireland	01 809 2166
Italy	0382-24444
Latvia	+371 67042473
Liechtenstein	01 406 43 43
Lithuania	+370 (85) 2362052
Luxembourg	(+352) 8002 5500
Malta	112
Netherlands	+31 (0)88 755 8000
Norway	22 59 13 00
Poland	112
Portugal	+351 800 250 250
Romania	+40213183606
Slovakia	+421 2 5477 4166
Slovenia	112
Spain	+34 91 562 04 20
Sweden	112
Switzerland	145
United Kingdom	111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 1B - (H350)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Category 3 Target organ effects: Respiratory irritation.	
Chronic aquatic toxicity	Category 2 - (H411)

### 2.2. Label elements

Contains DIMETHYLBENZYL HYDROPEROXIDE; MALEIC ACID; CUMENE



Signal word

Danger

#### Hazard statements

H317 - May cause an allergic skin reaction.  
 H319 - Causes serious eye irritation.  
 H332 - Harmful if inhaled.  
 H335 - May cause respiratory irritation.  
 H350 - May cause cancer.  
 H411 - Toxic to aquatic life with long lasting effects.

#### Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use.  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P321 - Specific treatment (see supplemental first aid instructions on this label).  
 P391 - Collect spillage.

#### Unknown acute toxicity

95.255 % of the mixture consists of ingredient(s) of unknown acute toxicity.  
 60.94 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.  
 60.94 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.  
 95.255 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).  
 95.255 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).  
 95.255 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

#### Unknown aquatic toxicity

Contains 0.14 % of components with unknown hazards to the aquatic environment.

#### Additional information

This product requires tactile warnings if supplied to the general public.

#### 2.3. Other hazards

**Other hazards** Causes mild skin irritation. Harmful to aquatic life.

**PBT & vPvB** The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	1 - <2.5	No data available	201-254-7 (617-002-00-8)	Org. Perox. E (H242) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1B (H314) Acute Tox. 3 (H331)	Eye Dam. 1 :: 3%≤C<10% Eye Irrit. 2 :: 1%≤C<3% Skin Corr. 1B :: C≥10%	-	-	-

				STOT RE 2 (H373) Aquatic Chronic 2 (H411)	Skin Irrit. 2 :: 3%≤C<10% STOT SE 3 :: C<10%			
PROPYLENE GLYCOL 57-55-6	0.5 - <1	No data available	200-338-0	No data available	-	-	-	-
MALEIC ACID 110-16-7	0.1 - <0.5	No data available	203-742-5 (607-095-00-3)	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) STOT SE 3 (H335)	Skin Sens. 1 :: C≥0.1%	-	-	-
1-ACETYL-2-PHENYLHYDRAZINE 114-83-0	0.1 - <0.5	No data available	204-055-3	No data available	-	-	-	-
ACRYLIC ACID 79-10-7	0.1 - <0.5	No data available	201-177-9 (607-061-00-8)	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1A (H314) Acute Tox. 4 (H332) Aquatic Acute 1 (H400)	STOT SE 3 :: C≥1%	-	-	D
CUMENE 98-82-8	0.1 - <0.5	No data available	202-704-5 (601-024-00-X)	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H335) Carc. 1B (H350) Aquatic Chronic 2 (H411)	-	-	-	-

Note D - Certain substances which are susceptible to spontaneous polymerization or decomposition are generally placed on the market in a stabilized form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilized form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words "non-stabilized".

**Full text of H- and EUH-phrases: see section 16**

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE<sub>mix</sub>) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	382	133.56	No data available	No data available	No data available
PROPYLENE GLYCOL 57-55-6	20000	20800	No data available	No data available	No data available
MALEIC ACID 110-16-7	708	1560	0.18	No data available	No data available
ACRYLIC ACID 79-10-7	193	2000	3.6 2.775	No data available	No data available
CUMENE 98-82-8	1400	10578	No data available	21.5355	No data available

This product does not contain candidate substances of very high concern at a concentration ≥0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation. Coughing and/ or wheezing. Difficulty in breathing.
<b>Effects of Exposure</b>	May cause cancer.

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	May cause sensitization in susceptible persons. Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards arising from the chemical</b>	Product is or contains a sensitizer. May cause sensitization by skin contact.
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### 5.3. Advice for firefighters

<b>Special protective equipment and</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
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precautions for fire-fighters Use personal protection equipment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

**Storage class (TRGS 510)** Storage class 6.1C.

### 7.3. Specific end use(s)

**Specific use(s)**  
Adhesive.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
PROPYLENE GLYCOL 57-55-6	-	-	-	-	TWA: 150 ppm TWA: 474 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
ACRYLIC ACID 79-10-7	TWA: 29 mg/m <sup>3</sup> TWA: 10 ppm STEL: 59 mg/m <sup>3</sup> STEL: 20 ppm	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL 20 ppm STEL 59 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 6.0 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup> Sk*	TWA: 29 mg/m <sup>3</sup> TWA: 10 ppm STEL: 59 mg/m <sup>3</sup> STEL: 20 ppm	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>
CUMENE 98-82-8	TWA: 50 mg/m <sup>3</sup> TWA: 10 ppm STEL: 250 mg/m <sup>3</sup> STEL: 50 ppm Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL 50 ppm STEL 250 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
ACRYLIC ACID 79-10-7	TWA: 29 mg/m <sup>3</sup> TWA: 10 ppm STEL: 59 mg/m <sup>3</sup> STEL: 20 ppm	TWA: 30 mg/m <sup>3</sup> Ceiling: 60 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 5.9 mg/m <sup>3</sup> STEL: 20 ppm 1 minute STEL: 59 mg/m <sup>3</sup> 1 minute Sk*	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 6 mg/m <sup>3</sup> Ceiling: 15 ppm Ceiling: 45 mg/m <sup>3</sup>
CUMENE 98-82-8	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 100 mg/m <sup>3</sup> Sk* Ceiling: 250 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 250 mg/m <sup>3</sup> STEL: 50 ppm Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
ACRYLIC ACID 79-10-7	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 30 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 30 mg/m <sup>3</sup> Peak: 10 ppm Peak: 30 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>
CUMENE 98-82-8	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> TWA: 150 mg/m <sup>3</sup> TWA: 1000 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> Peak: 40 ppm Peak: 200 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 50 mg/m <sup>3</sup> TWA: 10 ppm STEL: 250 mg/m <sup>3</sup> STEL: 50 ppm Sk*
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	-	-	-	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> Sk*
PROPYLENE GLYCOL 57-55-6	TWA: 10 mg/m <sup>3</sup> TWA: 150 ppm TWA: 470 mg/m <sup>3</sup> STEL: 1410 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 450 ppm	-	-	TWA: 7 mg/m <sup>3</sup>	TWA: 7 mg/m <sup>3</sup>
1-ACETYL-2-PHENYLHY	-	-	-	-	TWA: 0.013 mg/m <sup>3</sup>

DRAZINE 114-83-0					TWA: 0.01 ppm Sk* J+
ACRYLIC ACID 79-10-7	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>	TWA: 29 ppm TWA: 10 mg/m <sup>3</sup> STEL: 59 ppm STEL: 20 mg/m <sup>3</sup> Sk*	TWA: 2 ppm TWA: 6 mg/m <sup>3</sup> Sk*	TWA: 5 mg/m <sup>3</sup> TWA: 1.7 ppm STEL: 59 mg/m <sup>3</sup> STEL: 20 ppm	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> Ceiling: 59 mg/m <sup>3</sup> Ceiling: 20 ppm
CUMENE 98-82-8	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 50 ppm TWA: 246 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 50 mg/m <sup>3</sup> TWA: 10 ppm STEL: 170 mg/m <sup>3</sup> STEL: 35 ppm Sk*
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
PROPYLENE GLYCOL 57-55-6	-	-	-	TWA: 25 ppm TWA: 79 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 118.5 mg/m <sup>3</sup>	TWA: 100 mg/m <sup>3</sup>
ACRYLIC ACID 79-10-7	TWA: 29 mg/m <sup>3</sup> TWA: 10 ppm STEL: 59 mg/m <sup>3</sup> STEL: 20 ppm	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 202 ppm STEL: 59 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup> A+	TWA: 10 mg/m <sup>3</sup> STEL: 29.5 mg/m <sup>3</sup> Sk*
CUMENE 98-82-8	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 50 mg/m <sup>3</sup> TWA: 10 ppm STEL: 250 mg/m <sup>3</sup> STEL: 50 ppm Sk*	TWA: 50 mg/m <sup>3</sup> STEL: 250 mg/m <sup>3</sup> Sk*
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
ACRYLIC ACID 79-10-7	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 59 mg/m <sup>3</sup> STEL: 20 ppm Sk*	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> Ceiling: 59 mg/m <sup>3</sup>	TWA: 29 mg/m <sup>3</sup> TWA: 10 ppm STEL: 20 ppm STEL: 59 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup> Sk*
CUMENE 98-82-8	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> Sk* Ceiling: 250 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*
Chemical name	Sweden		Switzerland		United Kingdom
PROPYLENE GLYCOL 57-55-6	-		-		TWA: 150 ppm TWA: 474 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> STEL: 450 ppm STEL: 1422 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>
ACRYLIC ACID 79-10-7	NGV: 10 ppm NGV: 29 mg/m <sup>3</sup> Bindande KGV: 20 ppm Bindande KGV: 59 mg/m <sup>3</sup>		TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup> S+		TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>
CUMENE 98-82-8	NGV: 10 ppm NGV: 50 mg/m <sup>3</sup> Bindande KGV: 50 ppm Bindande KGV: 250 mg/m <sup>3</sup> Sk*		TWA: 20 ppm TWA: 100 mg/m <sup>3</sup> STEL: 80 ppm STEL: 400 mg/m <sup>3</sup> Sk*		TWA: 25 ppm TWA: 125 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup> Sk*

**Biological occupational exposure limits**



Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
CUMENE 98-82-8	-	-	7 mg/g Creatinine - urine (2-Phenol-2-propanol) - up to two hours after the end of work shift	-	-
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
CUMENE 98-82-8	-	-	-	10 mg/g Creatinine (urine - 2-Phenyl-2-propanol (after hydrolysis) end of shift) 10 mg/g Creatinine - BAT (end of exposure or end of shift) urine	10 mg/g Creatinine (urine - 2-Phenyl-2-propanol (after hydrolysis) end of shift)
Chemical name	Latvia	Luxembourg	Romania	Slovakia	
CUMENE 98-82-8	7 µg/g Creatinine - urine (Cumene) - no later than two hours after the end of the shift	-	-	10.6 mg/L (urine - 2-Phenylpropane end of exposure or work shift)	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
CUMENE 98-82-8	10 mg/g Creatinine - urine (2-Phenyl-2-propanol (after hydrolysis)) - at the end of the work shift	7 mg/g Creatinine (urine - 2-Phenyl-2-propanol end of shift)	20 mg/g creatinine (urine - 2-Phenyl-2-propanol after hydrolysis end of shift) 16.6 µmol/mmol creatinine (urine - 2-Phenyl-2-propanol after hydrolysis end of shift)	-	

## Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
ETHOXYLATED BISPHENOL A DIMETHACRYLATE 41637-38-1	-	2 mg/kg bw/day [4] [6]	3.52 mg/m <sup>3</sup> [4] [6]
DIMETHACRYLATE ESTER 27813-02-1	-	4.2 mg/kg bw/day [4] [6]	14.7 mg/m <sup>3</sup> [4] [6]
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	-	-	6 mg/m <sup>3</sup> [4] [6]
PROPYLENE GLYCOL 57-55-6	-	-	168 mg/m <sup>3</sup> [4] [6] 10 mg/m <sup>3</sup> [5] [6]
SACCHARIN 81-07-2	-	18.75 mg/kg bw/day [4] [6]	131.3 mg/m <sup>3</sup> [4] [6]
MALEIC ACID 110-16-7	-	-	3 mg/m <sup>3</sup> [4] [6] 3 mg/m <sup>3</sup> [4] [7] 3 mg/m <sup>3</sup> [5] [6] 3 mg/m <sup>3</sup> [5] [7]
ACRYLIC ACID 79-10-7	-	1 mg/cm <sup>2</sup> [5] [6] 1 mg/cm <sup>2</sup> [5] [7]	30 mg/m <sup>3</sup> [4] [6] 30 mg/m <sup>3</sup> [4] [7] 30 mg/m <sup>3</sup> [5] [6] 30 mg/m <sup>3</sup> [5] [7]
CUMENE	-	15.4 mg/kg bw/day [4] [6]	100 mg/m <sup>3</sup> [4] [6]

Chemical name	Oral	Dermal	Inhalation
98-82-8			250 mg/m <sup>3</sup> [5] [7]

**Notes**

[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.
[7]	Short term.

**Derived No Effect Level (DNEL) - General Public**

Chemical name	Oral	Dermal	Inhalation
ETHOXYLATED BISPHENOL A DIMETHACRYLATE 41637-38-1	0.5 mg/kg bw/day [4] [6]	-	0.87 mg/m <sup>3</sup> [4] [6]
DIMETHACRYLATE ESTER 27813-02-1	2.5 mg/kg bw/day [4] [6]	-	8.8 mg/m <sup>3</sup> [4] [6]
PROPYLENE GLYCOL 57-55-6	-	-	50 mg/m <sup>3</sup> [4] [6] 10 mg/m <sup>3</sup> [5] [6]
SACCHARIN 81-07-2	12.5 mg/kg bw/day [4] [6]	-	50 mg/m <sup>3</sup> [4] [6]
ACRYLIC ACID 79-10-7	-	1 mg/cm <sup>2</sup> [5] [6] 1 mg/cm <sup>2</sup> [5] [7]	3.6 mg/m <sup>3</sup> [4] [6] 3.6 mg/m <sup>3</sup> [4] [7] 3.6 mg/m <sup>3</sup> [5] [6] 3.6 mg/m <sup>3</sup> [5] [7]
CUMENE 98-82-8	5 mg/kg bw/day [4] [6]	-	16.6 mg/m <sup>3</sup> [4] [6]

**Notes**

[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.
[7]	Short term.

**Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
DIMETHACRYLATE ESTER 27813-02-1	0.904 mg/L	0.972 mg/L	0.904 mg/L	0.972 mg/L	-
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	0.0031 mg/L	0.031 mg/L	0.00031 mg/L	-	-
PROPYLENE GLYCOL 57-55-6	260 mg/L	183 mg/L	26 mg/L	-	-
SACCHARIN 81-07-2	5 mg/L	50 mg/L	0.5 mg/L	-	-
MALEIC ACID 110-16-7	0.1 mg/L	0.4281 mg/L	0.01 mg/L	-	-
ACRYLIC ACID 79-10-7	0.003 mg/L	0.0013 mg/L	0.0003 mg/L	-	-
CUMENE 98-82-8	0.035 mg/L	0.012 mg/L	0.0035 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
DIMETHACRYLATE ESTER 27813-02-1	6.28 mg/kg sediment dw	6.28 mg/kg sediment dw	10 mg/L	0.727 mg/kg soil dw	-
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	0.023 mg/kg sediment dw	0.0023 mg/kg sediment dw	0.35 mg/L	0.0029 mg/kg soil dw	-
PROPYLENE GLYCOL 57-55-6	572 mg/kg sediment dw	57.2 mg/kg sediment dw	20000 mg/L	50 mg/kg soil dw	-
SACCHARIN 81-07-2	104.403 mg/kg sediment dw	104.403 mg/kg sediment dw	50 mg/L	29.024034 mg/kg soil dw	-
MALEIC ACID 110-16-7	0.334 mg/kg sediment dw	0.0334 mg/kg sediment dw	44.6 mg/L	0.0415 mg/kg soil dw	-
ACRYLIC ACID 79-10-7	0.0236 mg/kg sediment dw	0.002346 mg/kg sediment dw	0.9 mg/L	1 mg/kg soil dw	0.03 g/kg food
CUMENE 98-82-8	3.22 mg/kg sediment dw	0.322 mg/kg sediment dw	200 mg/L	0.624 mg/kg soil dw	-

## 8.2. Exposure controls

**Engineering controls** No information available.

### Personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Thermal hazards** No information available.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state** Liquid  
**Color** No information available  
**Odor** No information available.  
**Odor threshold** No information available

#### Property

**Melting point / freezing point** No data available  
**Boiling point / boiling range** > 195 °C  
**Flammability (solid, gas)** No data available

#### Values

#### Remarks • Method

Estimated

Flammable in the presence of the following materials or conditions: open flames, sparks and static

<b>Flammability Limit in Air</b>		discharge.
<b>Upper flammability limit:</b>	No data available	None known
<b>Lower flammability limit:</b>	No data available	
<b>Flash point</b>	95 °C	
<b>Autoignition temperature</b>	No data available	Estimated
<b>Decomposition temperature</b>		Remarks: Self-Accelerating decomposition temperature (SADT): 50 °C SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.
<b>pH</b>	No data available	10% in deionized water
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic viscosity</b>	No Data Available	Kinematic viscosity at 100 degrees C
<b>Dynamic viscosity</b>	1,300 mPas @ 20°C (68°F)	
<b>Water solubility</b>	No data available	Immiscible in water
<b>Solubility(ies)</b>	No Data Available	None known
<b>Partition coefficient</b>	No Data Available	None known
<b>Vapor pressure</b>	<0.1 mm Hg	
<b>Relative density</b>	1.1	
<b>Bulk density</b>	No data available	
<b>Density</b>	No data available	
<b>Vapor density</b>	No data available	Air = 1
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	
<b>9.2. Other information</b>		
<b>VOC content</b>	3.664	

9.2.1. Information with regard to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

**Reactivity** No information available.

### **10.2. Chemical stability**

**Stability** Stable under normal conditions.

#### **Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

### **10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

### **10.4. Conditions to avoid**

**Conditions to avoid** Excessive heat.

### **10.5. Incompatible materials**

**Incompatible materials** None known based on information supplied.

#### 10.6. Hazardous decomposition products

**Hazardous Decomposition Products** None known based on information supplied.

### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Information on likely routes of exposure

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
<b>Skin contact</b>	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Prolonged contact may cause redness and irritation. Causes mild skin irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

##### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Itching. Rashes. Hives. May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation. Coughing and/ or wheezing.

##### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Acute toxicity** Harmful by inhalation.

##### **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral)	4,706.30 mg/kg
ATEmix (dermal)	4,499.40 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapor)	99,999.00 mg/l
ATEmix (inhalation-dust/mist)	1.19 mg/l

##### **Unknown acute toxicity**

- 60.94 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 60.94 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 95.255 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 95.255 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 95.255 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
DIMETHYLBENZYL HYDROPEROXIDE	= 382 mg/kg ( Rat )	= 0.126 mL/kg ( Rabbit )	= 220 ppm ( Rat ) 4 h
PROPYLENE GLYCOL	= 20 g/kg ( Rat )	= 20800 mg/kg ( Rabbit )	-
MALEIC ACID	= 708 mg/kg ( Rat )	= 1560 mg/kg ( Rabbit )	> 720 mg/m <sup>3</sup> ( Rat ) 1 h
ACRYLIC ACID	= 193 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 3.6 mg/L ( Rat ) 4 h

			= 11.1 mg/L ( Rat ) 1 h
CUMENE	= 1400 mg/kg ( Rat )	= 12300 µL/kg ( Rabbit )	> 3577 ppm ( Rat ) 6 h

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes mild skin irritation.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
CUMENE	Carc. 1B

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** Based on available data, the classification criteria are not met.

### 11.2.2. Other information

**Other adverse effects** No information available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life with long lasting effects. Harmful to aquatic life.

**Unknown aquatic toxicity** Contains 0.14 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
DIMETHYLBENZYL HYDROPEROXIDE	-	LC50: =3.9mg/L (96h, Oncorhynchus mykiss)	-	-
PROPYLENE GLYCOL	EC50: =19000mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =51600mg/L (96h, Oncorhynchus mykiss) LC50: 41 - 47mL/L (96h, Oncorhynchus mykiss) LC50: =51400mg/L (96h, Pimephales promelas) LC50: =710mg/L (96h, Pimephales promelas)	-	EC50: >1000mg/L (48h, Daphnia magna)
MALEIC ACID	-	LC50: =5mg/L (96h, Pimephales promelas)	-	EC50: 250 - 400mg/L (48h, Daphnia magna)
ACRYLIC ACID	EC50: =0.17mg/L (96h, Pseudokirchneriella subcapitata) EC50: =0.04mg/L (72h, Desmodesmus subspicatus)	LC50: =222mg/L (96h, Brachydanio rerio)	-	EC50: =95mg/L (48h, Daphnia magna)
CUMENE	EC50: =2.6mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 6.04 - 6.61mg/L (96h, Pimephales promelas) LC50: =4.8mg/L (96h, Oncorhynchus mykiss) LC50: =2.7mg/L (96h, Oncorhynchus mykiss) LC50: =5.1mg/L (96h, Poecilia reticulata)	-	EC50: =0.6mg/L (48h, Daphnia magna) EC50: 7.9 - 14.1mg/L (48h, Daphnia magna)

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

#### **Bioaccumulation**

Chemical name	Partition coefficient
DIMETHYLBENZYL HYDROPEROXIDE	1.6
PROPYLENE GLYCOL	-1.07
MALEIC ACID	-0.34
ACRYLIC ACID	0.46
CUMENE	3.55

### 12.4. Mobility in soil

**Mobility in soil** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
DIMETHYLBENZYL HYDROPEROXIDE	The substance is not PBT / vPvB

PROPYLENE GLYCOL	The substance is not PBT / vPvB
MALEIC ACID	The substance is not PBT / vPvB
ACRYLIC ACID	The substance is not PBT / vPvB
CUMENE	The substance is not PBT / vPvB

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** Based on available data, the classification criteria are not met.

**12.7. Other adverse effects**

**Other adverse effects** No information available.

**PMT or vPvM properties** Based on available data, the classification criteria are not met.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**SECTION 14: Transport information****IATA**

14.1 UN number or ID number Not regulated  
 14.2 UN proper shipping name Not regulated  
 14.3 Transport hazard class(es) Not regulated  
 14.4 Packing group Not regulated  
 14.5 Environmental hazards Not applicable  
 14.6 Special precautions for user  
 Special Provisions None

**IMDG**

14.1 UN number or ID number Not regulated  
 14.2 UN proper shipping name Not regulated  
 14.3 Transport hazard class(es) Not regulated  
 14.4 Packing group Not regulated  
 14.5 Environmental hazards Not applicable  
 14.6 Special precautions for user  
 Special Provisions None  
 14.7 Maritime transport in bulk according to IMO instruments No information available

**RID**

14.1 UN number or ID number Not regulated  
 14.2 UN proper shipping name Not regulated  
 14.3 Transport hazard class(es) Not regulated  
 14.4 Packing group Not regulated  
 14.5 Environmental hazards Not applicable  
 14.6 Special precautions for user  
 Special Provisions None



**ADR**

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

**ADN**

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special precautions for user	
Special Provisions	None

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
PROPYLENE GLYCOL - 57-55-6	RG 84
CUMENE - 98-82-8	RG 84

**Germany**

**Water hazard class (WGK)** strongly hazardous to water (WGK 3)

**TA Luft (German Air Pollution Control Regulation)**

Chemical name	Number	Class
ACRYLIC ACID	5.2.5	Class I

**Netherlands****Carcinogenic, mutagenic and reproductive toxic effects**

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
CUMENE	Present	-	-

**Switzerland**

**Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018** Group I  
**Storage of Hazardous Material** SC 10/12  
**WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20** Class B

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
DIMETHYLBENZYL HYDROPEROXIDE - 80-15-9	75	-
MALEIC ACID - 110-16-7	75	-
ACRYLIC ACID - 79-10-7	75	-
CUMENE - 98-82-8	28 75	-

#### Persistent Organic Pollutants

Not applicable

#### Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Complies
IECSC	Complies
KECI	Does not comply
PICCS	Does not comply
AICS	Complies
NZIoC	Complies
TCSI	Contact supplier for inventory compliance status

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing Chemicals Inventory  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**TCSI** - Taiwan Chemical Substance Inventory

#### 15.2. Chemical safety assessment

Chemical Safety Report No information available

### SECTION 16: Other information

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapor  
 H242 - Heating may cause a fire  
 H302 - Harmful if swallowed  
 H304 - May be fatal if swallowed and enters airways  
 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  
 H332 - Harmful if inhaled  
 H335 - May cause respiratory irritation  
 H350 - May cause cancer  
 H373 - May cause damage to organs through prolonged or repeated exposure  
 H400 - Very toxic to aquatic life  
 H411 - Toxic to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorization:  
 PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
 vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances  
 STOT: Specific Target Organ Toxicity  
 ATE: Acute Toxicity Estimate  
 LC50: 50% Lethal Concentration  
 LD50: 50% Lethal Dose

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitizers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)  
 Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

Revision Date 06-Sep-2024

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

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**End of Safety Data Sheet**