

# SAFETY DATA SHEET



PPG Protective &  
Marine Coatings

Date of issue/Date of revision : 28 December 2014

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

### 1.1 Product identifier

**Product name** : SIGMACOVER 300 BASE BLACK  
**Product code** : 00138917  
**Other means of identification** : Not available.

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

**Product use** : Professional applications, Used by spraying.  
**Use of the substance/  
mixture** : Coating.

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

PPG Coatings SPRL/BVBA  
Tweemontstraat 104  
B-2100 Deurne  
Belgium  
Telephone +32-33606311  
Fax +32-33606435

**e-mail address of person responsible for this SDS** : PMC.Safety@PPG.com

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : Poison Information Centre; emergency telephone, public + 45 82 12 12 12 (health sector +45 35 31 55 55)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Flam. Liq. 3, H226  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Skin Sens. 1, H317  
Muta. 1B, H340  
Carc. 1A, H350  
Repr. 1B, H360FD (Fertility and Unborn child)  
STOT RE 2, H373  
Aquatic Acute 1, H400  
Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

#### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

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## SECTION 2: Hazards identification

R10  
Carc. Cat. 1; R45  
Muta. Cat. 2; R46  
Repr. Cat. 2; R60, R61  
Xn; R20/21  
Xi; R36/38  
R43  
N; R50/53  
Flammable.

May cause cancer. May cause heritable genetic damage. May impair fertility. May cause harm to the unborn child. Also harmful by inhalation and in contact with skin. Irritating to eyes and skin. May cause sensitisation by skin contact.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

#### Hazard pictograms



#### Signal word

: Danger

#### Hazard statements

: Flammable liquid and vapour.  
Causes serious eye irritation.  
Causes skin irritation.  
May cause an allergic skin reaction.  
May cause genetic defects.  
May cause cancer.  
May damage fertility. May damage the unborn child.  
May cause damage to organs through prolonged or repeated exposure.  
Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

##### Prevention

: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.

##### Response

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

##### Storage

: Store in a well-ventilated place. Keep cool.

##### Disposal

: Not applicable.

#### Hazardous ingredients

☑ xylene  
pitch, coal tar, high-temp  
Quartz (SiO<sub>2</sub>)  
epoxy resin (MW ≤ 700)  
epoxy resin (700 < MW < 1100)  
benzo[a]pyrene

#### Supplemental label elements

: Contains epoxy constituents. May produce an allergic reaction.

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## SECTION 2: Hazards identification

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Restricted to professional users.

### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Other hazards which do not result in classification** : Prolonged or repeated contact may dry skin and cause irritation.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	% by weight	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - <25	R10  Xn; R20/21 Xi; R38	Flam. Liq. 3, H226  Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	[1] [2]
pitch, coal tar, high-temp	EC: 266-028-2  CAS: 65996-93-2 Index: 648-055-00-5	≥10 - <25	Carc. Cat. 1; R45  Muta. Cat. 2; R46 Repr. Cat. 2; R60, R61  N; R50/53	Muta. 1B, H340  Carc. 1A, H350 Repr. 1B, H360FD (Fertility and Unborn child) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2] [3] [4]
Quartz (SiO <sub>2</sub> )	EC: 238-878-4  CAS: 14808-60-7	≥5 - <10	Xn; R48/20	STOT RE 1, H372 (inhalation)	[1] [2]
epoxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥5 - <10	Xi; R36/38  R43 N; R51/53	Skin Irrit. 2, H315  Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
epoxy resin (700 < MW < 1100)	CAS: 25068-38-6	≥3 - <5	Xi; R36/38 R43	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥1 - <3	R10  R67	Flam. Liq. 3, H226  STOT SE 3, H336	[1] [2]
ethylbenzene	EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1 - <3	F; R11 Xn; R20	Flam. Liq. 2, H225 Acute Tox. 4, H332	[1] [2]
Creosote oil,	EC: 292-605-3	≥1 - <3	Carc. Cat. 2; R45	Carc. 1B, H350	[1]

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### SECTION 3: Composition/information on ingredients

acenaphthene fraction	CAS: 90640-84-9 Index: 648-098-00-X				
Distillates (coal tar), heavy oils	EC: 292-607-4	≥0.3 - <1	Carc. Cat. 2; R45	Carc. 1B, H350	[1]
nonylphenol	CAS: 90640-86-1 Index: 648-044-00-5				
	EC: 246-672-0	≥0.3 - <1	Repr. Cat. 3; R62, R63	Acute Tox. 4, H302	[1] [5]
	CAS: 25154-52-3 Index: 601-053-00-8		Xn; R22 C; R34 N; R50/53	Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd (Fertility and Unborn child) Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Acute 1, H400	[1]
pyrene	EC: 204-927-3	≥0.3 - <1	N; R50/53	Aquatic Chronic 1, H410 Acute Tox. 4, H302	[1] [2]
phenanthrene	CAS: 129-00-0 EC: 201-581-5	≥0.3 - <1	Xn; R22	Aquatic Chronic 1, H410 Acute Tox. 4, H302	[1] [2]
	CAS: 85-01-8		N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, H302	[1] [2]
naphthalene	EC: 202-049-5	≥0.3 - <1	Carc. Cat. 3; R40	Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, H302	[1] [2]
	CAS: 91-20-3 Index: 601-052-00-2		Xn; R22 N; R50/53		
benzo[k]fluoranthene	EC: 205-916-6	≥0.3 - <1	Carc. Cat. 2; R45	Carc. 1B, H350	[1] [2]
	CAS: 207-08-9 Index: 601-036-00-5		N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]
benz[e] acephenanthrylene	EC: 205-911-9	≥0.3 - <1	Carc. Cat. 2; R45	Carc. 1B, H350	[1] [2]
	CAS: 205-99-2 Index: 601-034-00-4		N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]
benz[a]anthracene	EC: 200-280-6	≥0.1 - <0.3	Carc. Cat. 2; R45	Carc. 1B, H350	[1] [2]
	CAS: 56-55-3 Index: 601-033-00-9		N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]
chrysene	EC: 205-923-4	≥0.1 - <0.3	Carc. Cat. 2; R45	Muta. 2, H341	[1] [2]
	CAS: 218-01-9 Index: 601-048-00-0		Muta. Cat. 3; R68 N; R50/53	Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]
benzo[a]pyrene	EC: 200-028-5	≥0.1 - <0.3	Carc. Cat. 2; R45	Skin Sens. 1, H317	[1] [2]
	CAS: 50-32-8 Index: 601-032-00-3		Muta. Cat. 2; R46 Repr. Cat. 2; R60, R61 R43	Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360FD (Fertility and Unborn child) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]
			N; R50/53		
benzo[e]pyrene	EC: 205-892-7	≥0.1 - <0.3	Carc. Cat. 2; R45	Carc. 1B, H350	[1] [2]
	CAS: 192-97-2 Index: 601-049-00-6		N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]

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### SECTION 3: Composition/information on ingredients

biphenyl	EC: 202-163-5 CAS: 92-52-4 Index: 601-042-00-8	≥0.1 - <0.3	Xi; R36/37/38 N; R50/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]
dibenz[a,h]anthracene	EC: 200-181-8 CAS: 53-70-3 Index: 601-041-00-2	≥0.001 - <0.1	Carc. Cat. 2; R45 N; R50/53  <b>See Section 16 for the full text of the R- phrases declared above.</b>	Carc. 1B, H350  Aquatic Acute 1, H400 Aquatic Chronic 1, H410  <b>See Section 16 for the full text of the H statements declared above.</b>	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

**SUB codes represent substances without registered CAS Numbers.**

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

##### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

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## SECTION 4: First aid measures

### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

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

- Hazards from the substance or mixture** : Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
halogenated compounds  
metal oxide/oxides

### 5.3 Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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## SECTION 5: Firefighting measures

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid

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## SECTION 7: Handling and storage

release to the environment. Refer to special instructions/safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

: Storage temperature: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
xylene	<b>Arbejdstilsynet (Denmark, 10/2012). Absorbed through skin.</b> TWA: 109 mg/m <sup>3</sup> 8 hours. TWA: 25 ppm 8 hours.
pitch, coal tar, high-temp	<b>Arbejdstilsynet (Denmark, 10/2012). Carcinogen.</b> TWA: 0.2 mg/m <sup>3</sup> 8 hours.
Quartz (SiO <sub>2</sub> )	<b>Arbejdstilsynet (Denmark, 10/2012). Carcinogen.</b> TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: total respirable fraction
1-methoxy-2-propanol	<b>Arbejdstilsynet (Denmark, 10/2012). Absorbed through skin.</b> TWA: 185 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
ethylbenzene	<b>Arbejdstilsynet (Denmark, 10/2012). Absorbed through skin. Carcinogen.</b> TWA: 217 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
phenanthrene	<b>Arbejdstilsynet (Denmark, 10/2012).</b> TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: particles



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## SECTION 8: Exposure controls/personal protection

naphthalene	<b>Arbejdstilsynet (Denmark, 10/2012). Carcinogen.</b> TWA: 50 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.
benzo[k]fluoranthene	<b>Arbejdstilsynet (Denmark, 10/2012). Carcinogen.</b> TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: particles
benz[e]acephenanthrylene	<b>Arbejdstilsynet (Denmark, 10/2012). Carcinogen.</b> TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: particles
benz[a]anthracene	<b>Arbejdstilsynet (Denmark, 10/2012). Carcinogen.</b> TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: particles
chrysene	<b>Arbejdstilsynet (Denmark, 10/2012). Carcinogen.</b> TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: particles
benzo[a]pyrene	<b>Arbejdstilsynet (Denmark, 10/2012). Carcinogen.</b> TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: particles
benzo[e]pyrene	<b>Arbejdstilsynet (Denmark, 10/2012).</b> TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: particles
biphenyl	<b>Arbejdstilsynet (Denmark, 10/2012).</b> TWA: 0.2 ppm 8 hours. TWA: 1 mg/m <sup>3</sup> 8 hours.
dibenz[a,h]anthracene	<b>Arbejdstilsynet (Denmark, 10/2012). Carcinogen.</b> TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: particles

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs

DNELs - Not available.

### PNECs

PNECs - Not available.

## 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Chemical splash goggles.

### Skin protection

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## SECTION 8: Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Gloves** : butyl rubber
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Colour** : Not available.
- Odour** : Aromatic. [Strong]
- Odour threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : >37.78°C
- Flash point** : Closed cup: 31.2°C
- Evaporation rate** : Not available.
- Material supports combustion.** : Yes.
- Flammability (solid, gas)** : Not available.
- Upper/lower flammability or explosive limits** : Lower: 0.93%  
Upper: 2.03%
- Vapour pressure** : Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.87 kPa (6.53 mm Hg) (at 20°C)
- Vapour density** : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.63 (Air = 1)
- Relative density** : 1.55

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## SECTION 9: Physical and chemical properties

**Solubility(ies)** : Insoluble in the following materials: cold water.  
**Partition coefficient: n-octanol/ water** : Not available.  
**Auto-ignition temperature** : 270°C  
**Decomposition temperature** : Not available.  
**Viscosity** : Kinematic (40°C): >0.21 cm<sup>2</sup>/s  
**Viscosity** : 60 - 100 s (ISO 6mm)  
**Explosive properties** : Not available.  
**Oxidising properties** : Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.  
**10.2 Chemical stability** : The product is stable.  
**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.  
**10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.  
Refer to protective measures listed in sections 7 and 8.  
**10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.  
**10.6 Hazardous decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
	LC50 Inhalation Vapour	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
pitch, coal tar, high-temp	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3300 mg/kg	-
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
epoxy resin (700 < MW < 1100)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
1-methoxy-2-propanol	LD50 Oral	Rat	>2 g/kg	-
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	4000 ppm	4 hours

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## SECTION 11: Toxicological information

nonylphenol	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
pyrene	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	580 mg/kg	-
phenanthrene	LC50 Inhalation Dusts and mists	Rat	170 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	2.7 g/kg	-
naphthalene	LD50 Oral	Rat	1.8 g/kg	-
	LD50 Dermal	Rabbit	>20 g/kg	-
biphenyl	LD50 Oral	Rat	490 mg/kg	-
	LD50 Dermal	Rabbit	>5010 mg/kg	-
	LD50 Oral	Rat	2140 mg/kg	-

**Conclusion/Summary** : Not available.

### Acute toxicity estimates

Route	ATE value
Dermal	7959.2 mg/kg
Inhalation (gases)	48261.4 ppm
Inhalation (vapours)	655.3 mg/l

### Irritation/Corrosion

**Conclusion/Summary** : Not available.

### Sensitisation

**Conclusion/Summary** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
1-methoxy-2-propanol	Category 3	Not applicable.	Narcotic effects
biphenyl	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	Inhalation	Not determined

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Inhalation** : No known significant effects or critical hazards.

**Ingestion** :  No known significant effects or critical hazards.

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## SECTION 11: Toxicological information

**Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Eye contact** : Causes serious eye irritation.

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

**Inhalation** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

**Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : May cause genetic defects.

**Teratogenicity** : May damage the unborn child.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : May damage fertility.

**Other information** : Not available.

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## SECTION 11: Toxicological information

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains epoxy resin (MW ≤ 700), epoxy resin (700 < MW < 1100), benzo[a]pyrene. May produce an allergic reaction.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
ethylbenzene	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
nonylphenol	Acute LC50 150 to 200 mg/l Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours
	Acute EC50 0.056 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Chronic EC10 0.003 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Chronic NOEC 1 µg/l Fresh water	Daphnia - Daphnia magna	21 days

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
ethylbenzene	-	-	Readily

### 12.3 Bioaccumulative potential

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## SECTION 12: Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
xylene	3.16	7.4 to 18.5	low
pitch, coal tar, high-temp	6.04	-	high
ethylbenzene	3.15	79.43	low
nonylphenol	3.28	154.88	low
pyrene	4.88	1513.56	high
phenanthrene	4.46	2511.89	high
naphthalene	3.3	85.11	low
benzo[k]fluoranthene	6.11	-	high
benz[e]acephenanthrylene	5.78	-	high
benz[a]anthracene	5.76	257.04	low
chrysene	5.81	-	high
benzo[a]pyrene	6.13	-	high
benzo[e]pyrene	6.44	-	high
biphenyl	4.01	436.52	low
dibenz[a,h]anthracene	6.75	-	high

### 12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

#### European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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## SECTION 13: Disposal considerations

Type of packaging	European waste catalogue (EWC)	
Container	15 01 06	mixed packaging

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	No.
Marine pollutant substances	Not applicable.	Not applicable.	(Pitch, coal tar, high-temp., Epoxy resin (MW ≤ 700))	Not applicable.

### Additional information

- ADR/RID** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- Tunnel code** : (D/E)
- ADN** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorisation](#)

[Annex XIV](#)

None of the components are listed.

[Substances of very high concern](#)



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## SECTION 15: Regulatory information

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Pitch, coal tar, high temp.	Carcinogen	Candidate	ED/68/2009	1/13/2010
-	PBT	Candidate	ED/68/2009	1/13/2010
-	vPvB	Candidate	ED/68/2009	1/13/2010
4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	Substance of equivalent concern for environment	Candidate	ED/169/2012	4/19/2013

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Restricted to professional users.

### Other EU regulations

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Pitch, coal tar, high-temp	Carc. 1A, H350	Muta. 1B, H340	Repr. 1B, H360D (Unborn child)	Repr. 1B, H360F (Fertility)
Creosote oil, acenaphthene fraction	Carc. 1B, H350	-	-	-
Distillates (coal tar), heavy oils	Carc. 1B, H350	-	-	-
nonylphenol	-	-	Repr. 2, H361d (Unborn child)	Repr. 2, H361f (Fertility)
naphthalene	Carc. 2, H351	-	-	-
benzo[k]fluoranthene	Carc. 1B, H350	-	-	-
benz[e]acephenanthrylene	Carc. 1B, H350	-	-	-
benz[a]anthracene	Carc. 1B, H350	-	-	-
chrysene	Carc. 1B, H350	Muta. 2, H341	-	-
benzo[a]pyrene	Carc. 1B, H350	Muta. 1B, H340	Repr. 1B, H360D (Unborn child)	Repr. 1B, H360F (Fertility)
benzo[e]pyrene	Carc. 1B, H350	-	-	-
dibenz[a,h]anthracene	Carc. 1B, H350	-	-	-

### National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
Pitch, coal tar, high-temp	Denmark Carcinogenic Chemicals	kulafledte stoffer Som ikke er nævnt andetsteds i dette bilag, der indeholder >= 0,1% benzen eller >= 0,005% benzo(a) pyren og/eller er klassificeret som Carc2, jf. Miljøstyrelsens liste over farlige stoffer, samt kulafledte stoffer defineret ved EINECS-	Listed	-

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## SECTION 15: Regulatory information

Quartz (SiO <sub>2</sub> )	Denmark Carcinogenic Chemicals	numrene 266-028-2, 283-482-7 og 292-607-4 α-kvarts	Listed	-
ethylbenzene	Denmark Carcinogenic Chemicals	ethylbenzen	Listed	-
Creosote oil, acenaphthene fraction	Denmark Carcinogenic Chemicals	creosotolie Med indhold >= 0,1% benzen eller >= 0, 005% benzo(a)pyren	Listed	-
Distillates (coal tar), heavy oils	Denmark Carcinogenic Chemicals	kulafledte stoffer Som ikke er nævnt andetsteds i dette bilag, der indeholder >= 0,1% benzen eller >= 0,005% benzo(a) pyren og/eller er klassificeret som Carc2, jf. Miljøstyrelsens liste over farlige stoffer, samt kulafledte stoffer defineret ved EINECS- numrene 266-028-2, 283-482-7 og 292-607-4	Listed	-
naphthalene	Denmark Carcinogenic Chemicals	naphthalen	Listed	-
benzo[k]fluoranthene	Denmark Carcinogenic Chemicals	benzo(k)fluoranthen	Listed	-
benz[e]acephenanthrylene	Denmark Carcinogenic Chemicals	benzo(b)fluoranthen	Listed	-
benz[a]anthracene	Denmark Carcinogenic Chemicals	benz(a)anthracen	Listed	-
chrysene	Denmark Carcinogenic Chemicals	chrysen	Listed	-
benzo[a]pyrene	Denmark Carcinogenic Chemicals	benzo(a)pyren	Listed	-

**Danish fire class** : II-1

**Denmark – Cancer risks** : National Working Environment Authorities Ordinance on Measures to Prevent Cancer Risks during Work with Substances and Preparations is applicable.

**MAL-code** : 3-6

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## SECTION 15: Regulatory information

**Protection based on MAL** : According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

**General:** Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 3-6

**Application:** When using scraper or knife, brush, roller etc. for pre- and post-treatments in a spray booth where the operator is outside the spray zone and when working in similar new\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new\* booths and cabins with non-atomizing guns.

- Protective clothing must be worn.

During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied half mask, protective clothing and eye protection must be worn.

When spraying in new\* booths if the operator is outside the spray zone.

- Air-supplied half mask and eye protection must be worn.

When spraying in existing\* spray booths, if the operator is outside the spray zone. During non-atomising spraying in existing\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone.

- Air-supplied full mask and protective clothing must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, protective clothing and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

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## SECTION 15: Regulatory information

**Caution** The regulations contain other stipulations in addition to the above.

\*See Regulations.

- Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order on young people's dangerous work.
- List of undesirable substances** : Not listed
- Carcinogenic waste** : Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

**15.2 Chemical Safety Assessment** : No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

**Full text of abbreviated H statements** : **H225** Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
(dermal)  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
(inhalation)  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H340 May cause genetic defects.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
H351 Suspected of causing cancer.  
H360FD May damage fertility. May damage the unborn child.  
(Fertility and Unborn child)  
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
(Fertility and Unborn child)  
H372 Causes damage to organs through prolonged or repeated exposure if inhaled.  
(inhalation)  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.

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## SECTION 16: Other information

	H410	Very toxic to aquatic life with long lasting effects.
	H411	Toxic to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
	Acute Tox. 4, H312	ACUTE TOXICITY (dermal) - Category 4
	Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
	Aquatic Acute 1, H400	ACUTE AQUATIC HAZARD - Category 1
	Aquatic Chronic 1, H410	LONG-TERM AQUATIC HAZARD - Category 1
	Aquatic Chronic 2, H411	LONG-TERM AQUATIC HAZARD - Category 2
	Carc. 1A, H350	CARCINOGENICITY - Category 1A
	Carc. 1B, H350	CARCINOGENICITY - Category 1B
	Carc. 2, H351	CARCINOGENICITY - Category 2
	Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
	Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
	Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
	Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
	Muta. 1B, H340	GERM CELL MUTAGENICITY - Category 1B
	Muta. 2, H341	GERM CELL MUTAGENICITY - Category 2
	Repr. 1B, H360FD (Fertility and Unborn child)	TOXIC TO REPRODUCTION (Fertility and Unborn child) - Category 1B
	Repr. 2, H361fd (Fertility and Unborn child)	TOXIC TO REPRODUCTION (Fertility and Unborn child) - Category 2
	Skin Corr. 1B, H314	SKIN CORROSION/IRRITATION - Category 1B
	Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
	Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1
	STOT RE 1, H372 (inhalation)	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 1
	STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
<b>Full text of abbreviated R phrases</b>	: R11- Highly flammable.	
	R10- Flammable.	
	R45- May cause cancer.	
	R40- Limited evidence of a carcinogenic effect.	
	R46- May cause heritable genetic damage.	
	R68- Possible risk of irreversible effects.	
	R60- May impair fertility.	
	R61- May cause harm to the unborn child.	
	R62- Possible risk of impaired fertility.	
	R63- Possible risk of harm to the unborn child.	
	R20- Also harmful by inhalation.	
	R22- Also harmful if swallowed.	
	R20/21- Also harmful by inhalation and in contact with skin.	
	R48/20- Also harmful: danger of serious damage to health by prolonged exposure through inhalation.	
	R34- Causes burns.	
	R38- Irritating to skin.	
	R36/38- Irritating to eyes and skin.	
	R36/37/38- Irritating to eyes, respiratory system and skin.	
	R43- May cause sensitisation by skin contact.	
	R67- Vapours may cause drowsiness and dizziness.	
	R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
	R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the	

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## SECTION 16: Other information

### Full text of classifications [DSD/DPD]

aquatic environment.

: F - Highly flammable

Carc. Cat. 1 - Carcinogen category 1

Carc. Cat. 2 - Carcinogen category 2

Carc. Cat. 3 - Carcinogen category 3

Muta. Cat. 2 - Mutagen category 2

Muta. Cat. 3 - Mutagen category 3

Repr. Cat. 2 - Toxic to reproduction category 2

Repr. Cat. 3 - Toxic to reproduction category 3

C - Corrosive

Xn - Harmful

Xi - Irritant

N - Dangerous for the environment

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

(dermal)

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

(inhalation)

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H340 May cause genetic defects.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H351 Suspected of causing cancer.

H360FD May damage fertility. May damage the unborn child.

(Fertility

and

Unborn

child)

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

(Fertility

and

Unborn

child)

H372 Causes damage to organs through prolonged or repeated exposure if

(inhalation) inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4

Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4

Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4

Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1

Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1

Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2

Carc. 1A, H350 CARCINOGENICITY - Category 1A

Carc. 1B, H350 CARCINOGENICITY - Category 1B

Carc. 2, H351 CARCINOGENICITY - Category 2

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SIGMACOVER 300 BASE BLACK

## SECTION 16: Other information

Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
Muta. 1B, H340	GERM CELL MUTAGENICITY - Category 1B
Muta. 2, H341	GERM CELL MUTAGENICITY - Category 2
Repr. 1B, H360FD (Fertility and Unborn child)	TOXIC TO REPRODUCTION (Fertility and Unborn child) - Category 1B
Repr. 2, H361fd (Fertility and Unborn child)	TOXIC TO REPRODUCTION (Fertility and Unborn child) - Category 2
Skin Corr. 1B, H314	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1
STOT RE 1, H372 (inhalation)	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 1
STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

### History

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