## SAFETY DATA SHEET

Date of issue/Date of revision : 14 April 2017 Version : 15.03



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

1.1 Product identifier

Product name : SIGMACOVER 280 BASE REDBROWN

Product code : 00144493

Other means of : Not available.

identification

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

**Supplier** 

Telephone number

+31 20 4075210

## 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 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 2, H411

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

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

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

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## **SECTION 2: Hazards identification**

#### 2.2 Label elements

Hazard pictograms









Signal word : Warning

**Hazard statements**: Flammable liquid and vapour.

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction. May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

Prevention : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources. No smoking. Do not

breathe vapour.

Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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.

P280, P210, P260, P304 + P340, P305 + P351 + P338, P403, P235

Hazardous ingredients : xylene

epoxy resin (700 < MW < 1100)

Quartz (SiO2)

Supplemental label

elements

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted

with child-resistant

: Not applicable.

fastenings

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause

irritation.

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**SIGMACOVER 280 BASE REDBROWN** 

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

3.2 Mixtures : Mixture

English (GB)

			<b>Classification</b>	
Product/ingredient name	Identifiers	% by weight	Regulation (EC) No. 1272/2008 [CLP]	Туре
<b>x</b> ylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (central nervous system (CNS), kidneys, liver) Asp. Tox. 1, H304	[1] [2]
Talc , not containing asbestiform fibres	EC: 238-877-9 CAS: 14807-96-6	≥10 - ≤25	Not classified.	[2]
epoxy resin (700 < MW < 1100)	CAS: 25068-38-6	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
crystalline silica, respirable powder (>10 microns)	EC: 238-878-4 CAS: 14808-60-7	≥10 - ≤25	Not classified.	[2]
diiron trioxide	REACH #: 01-2119457614-35 EC: 215-168-2 CAS: 1309-37-1	≥5.0 - ≤10	Not classified.	[2]
aluminium powder (stabilised)	EC: 231-072-3 CAS: 7429-90-5 Index: 013-002-00-1	≥1.0 - ≤5.0	Flam. Sol. 1, H228 Water-react. 2, H261	[2]
crystalline silica, respirable powder (<10 microns)	EC: 238-878-4 CAS: 14808-60-7	≥1.0 - ≤5.0	STOT RE 1, H372 (inhalation)	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	[1] [2]
4-nonylphenol, branched	EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8	≥0.30 - ≤2.4	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd (Fertility and Unborn child) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	[1] [5]
Naphtha (petroleum), hydrotreated heavy	EC: 265-150-3 CAS: 64742-48-9 Index: 649-327-00-6	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Asp. Tox. 1, H304 EUH066	[1]
Urea, polymer with formaldehyde, butylated	CAS: 68002-19-7	≥1.0 - ≤5.0	Aquatic Chronic 4, H413	[1]
Nonylphenols	EC: 294-048-1 CAS: 91672-41-2	≤0.030	Acute Tox. 4, H302 Skin Corr. 1B, H314	[1] [5]

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Code : 00144493 Date of issue/Date of revision : 14 April 2017 **SIGMACOVER 280 BASE REDBROWN** SECTION 3: Composition/information on ingredients Eye Dam. 1, H318 Repr. 2, H361fd (Fertility and Unborn child) Aquatic Acute 1, H400 (M=10)Aquatic Chronic 1, H410 (M=10)**EUH071** See Section 16 for the full text of the H statements declared above.

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** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

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** : May cause respiratory irritation.

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

**Ingestion**: Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

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## SECTION 4: First aid measures

**Eve contact** : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : Adverse symptoms may include the following:

> irritation redness dryness cracking

Ingestion Adverse symptoms may include the following:

stomach pains

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**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 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 oxides nitrogen oxides

halogenated compounds metal oxide/oxides Formaldehyde.

#### 5.3 Advice for firefighters

fighters

Special precautions for fire- : 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.

**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.

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## **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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid 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

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## **SECTION 7: Handling and storage**

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 : Not available.

solutions

## **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
Mene	EU OEL (Europe, 12/2009). Absorbed through skin.
	STEL: 442 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
Talc (Mg3H2(SiO3)4)	ACGIH TLV (United States, 3/2016).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
Quartz (SiO2)	ACGIH TLV (United States, 3/2016).
	TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable
diiron trioxide	ACGIH TLV (United States, 3/2016).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
aluminium powder (stabilised)	ACGIH TLV (United States, 3/2016).
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
Quartz (SiO2)	ACGIH TLV (United States, 3/2016).
	TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable
1-methoxy-2-propanol	EU OEL (Europe, 12/2009). Absorbed through skin.
	STEL: 568 mg/m³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
ethylbenzene	EU OEL (Europe, 12/2009). Absorbed through skin.
	STEL: 884 mg/m³ 15 minutes.

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## SECTION 8: Exposure controls/personal protection

STEL: 200 ppm 15 minutes. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

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**

Inhalation Short term Inhalation DNEL Long term Dermal DNEL Long term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long term DDNEL Short term Inhalation DNEL Long term DDNEL DDNEL Long term DDNEL	Product/ingredient name	Type	Exposure	Value	Population	Effects
DNEL Short term Inhalation DNEL Long term Dermal Short term Inhalation DNEL Cong term Dermal Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long term Dermal Short term Inhalation DNEL Long term Dermal Dermal Short term Inhalation DNEL Long term Dermal Dermal DNEL Long term Inhalation DNEL Long term Oral 1.6 mg/kg bw/day DNEL Long term Oral 1.6 mg/kg bw/day DNEL Long term Oral 1.6 mg/kg bw/day DNEL Long term Malation Malation DNEL Long term Oral 369 mg/ma Workers Systemic Systemic Inhalation DNEL Long term Dermal Sol.6 mg/kg bw/day DNEL Long term Oral Sol.6 mg/kg bw/day DNEL Long term Dermal Sol.6 mg/kg bw/day DNEL Long term Oral Sol.6 mg/kg bw/day DNEL Sol.6 m	<b>x</b> ýlene	DNEL		289 mg/m³	Workers	Systemic
DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term DNEL Long term DNEL Long term DNEL DNEL Long term DNEL DNEL Long term DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL	Short term	289 mg/m³	Workers	Local
DNEL Short term Inhalation DNEL Consumers Inhalation DNEL Long term John John John John John John John John		DNEL			Workers	Systemic
DNEL Short term Inhalation DNEL Long term Dermal DNEL Long term Oral DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dnemal Dne		DNEL			Workers	Systemic
DNEL   Short term   174 mg/m³   Consumers   Local		DNEL	Short term	174 mg/m³	Consumers	Systemic
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DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Oral  DNEL Long term Oral  DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Oral DNEL Short term Oral DNEL Long term Oral DNEL Long term Oral DNEL Short term Oral DNEL Long term Oral DNEL Long term Oral DNEL Short term Oral DNEL Long term Oral DNEL Long term Oral DNEL Short term Oral DNEL Long term Dermal DNEL Consumers DNEL Short term Oral DNEL Consumers DNEL Short term Oral DNEL Consumers DNEL Short term Oral DNEL Consumers DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL			Consumers	Systemic
DNEL Long term Oral 1.6 mg/kg bw/day  DNEL Short term 553.5 mg/ Inhalation  DNEL Long term Dermal Is.1 mg/ kg bw/day  DNEL Long term Oral 3.3 mg/kg bw/day  DNEL Long term Oral 293 mg/m³ Workers Systemic  DNEL Long term 77 mg/m³ Workers Systemic  DNEL Long term 180 mg/kg bw/day  DNEL Long term Dermal Inhalation		DNEL			Consumers	Systemic
I-methoxy-2-propanol  DNEL Short term Inhalation DNEL Long term Dermal Is.1 mg/kg bw/day DNEL Long term Oral Is.1 mg/kg bw/day DNEL Long term Oral Is.3 mg/kg bw/day DNEL Long term Oral Is.4 mg/kg bw/day Inhalation DNEL Long term Dermal Inhalation DNEL Long term Dermal Is.4 mg/kg bw/day DNEL Long term Dermal Is.5 mg/kg bw/day DNEL Long term Dermal Is.4 mg/kg bw/day Is.4 mg/kg bw/day Workers Isystemic Islandiation DNEL Long term Dermal Is.4 mg/kg bw/day Workers Systemic Islandiation DNEL Long term Dermal Is.4 mg/kg bw/day Workers Systemic Islandiation DNEL Long term Dermal Is.4 mg/kg bw/day Workers Systemic Islandiation DNEL Long term Dermal Is.4 mg/kg bw/day Workers Systemic Islandiation DNEL Long term Dermal Is.4 mg/kg bw/day Workers Systemic Islandiation DNEL Long term Dermal Is.4 mg/kg bw/day Workers Systemic Islandiation DNEL Long term Dermal Is.4 mg/kg bw/day Workers Systemic Islandiation DNEL Long term Dermal Is.4 mg/kg bw/day Workers Systemic Islandiation DNEL Long term Dermal Is.4 mg/kg bw/day Workers Systemic Islandiation DNEL Islan		DNEL			Consumers	Systemic
DNEL Long term Inhalation DNEL Long term Dermal 50.6 mg/ kg bw/day DNEL Long term Dermal Inhalation DNEL Long term Oral 3.3 mg/kg bw/day DNEL Long term Oral 3.3 mg/kg bw/day DNEL Long term Toral Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Dermal Inhalation DNEL Systemic	1-methoxy-2-propanol	DNEL		553.5 mg/	Workers	Local
DNEL Long term Dermal 50.6 mg/ kg bw/day  DNEL Long term Inhalation  DNEL Long term Dermal 18.1 mg/ kg bw/day  DNEL Long term Oral 3.3 mg/kg bw/day  DNEL Long term Oral 77 mg/m³ Workers Systemic  DNEL Long term Oral 77 mg/m³ Workers Systemic  DNEL Short term Inhalation  DNEL Short term Inhalation  DNEL Long term Dermal 180 mg/kg bw/day  DNEL Long term Dermal 180 mg/kg bw/day		DNEL	Long term		Workers	Systemic
DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Oral DNEL Long term Oral DNEL Long term Oral DNEL Long term Dermal DNEL Long term Toral DNEL Short term Toral DNEL		DNEL			Workers	Systemic
DNEL Long term Dermal 18.1 mg/ kg bw/day  DNEL Long term Oral 3.3 mg/kg bw/day  DNEL Long term Oral 77 mg/m³ Workers Systemic  DNEL Short term Inhalation  DNEL Long term Dermal 180 mg/kg bw/day  DNEL Long term Dermal 180 mg/kg bw/day		DNEL			Consumers	Systemic
DNEL Long term Oral 3.3 mg/kg bw/day 77 mg/m³ Workers Systemic  DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Dermal 180 mg/kg bw/day  DNEL Long term Dermal 180 mg/kg bw/day		DNEL		•	Consumers	Systemic
bthylbenzene  DNEL Long term   77 mg/m³   Workers   Systemic		DNEL	Long term Oral	3.3 mg/kg	Consumers	Systemic
DNEL Short term 293 mg/m³ Workers Local Inhalation DNEL Long term Dermal 180 mg/kg bw/day  Systemic	ethylbenzene	DNEL			Workers	Systemic
DNEL Long term Dermal 180 mg/kg bw/day Workers Systemic		DNEL	Short term	293 mg/m³	Workers	Local
		DNEL			Workers	Systemic
		DNEL	Long term	•	Consumers	Systemic

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

	Inhalation	4.0 "		
DNEL	Long term Oral	1.6 mg/kg	Consumers	Systemic
		bw/day		

#### **PNECs**

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
xylene	_	Fresh water	0.327 mg/l	-
	-	Marine water	0.327 mg/l	-
	-	Sewage Treatment	6.58 mg/l	-
		Plant		
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-
1-methoxy-2-propanol	-	Fresh water	10 mg/l	Assessment Factors
	-	Marine water	1 mg/l	Assessment Factors
	-	Sewage Treatment	100 mg/l	Assessment Factors
		Plant		
	-	Fresh water sediment	41.6 mg/kg	Equilibrium Partitioning
	-	Marine water sediment	4.17 mg/kg	Equilibrium Partitioning
	-	Soil	2.47 mg/kg	Equilibrium Partitioning
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors
	-	Marine water	0.01 mg/l	Assessment Factors
	-	Sewage Treatment	9.6 mg/l	Assessment Factors
		Plant		
	-	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	-	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	-	Secondary Poisoning	20 mg/kg	-

#### 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

Skin protection

Hand protection

: Chemical splash goggles.

: 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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class

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## SECTION 8: Exposure controls/personal protection

of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is

recommended.

: butyl rubber **Gloves** 

**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.

: Appropriate footwear and any additional skin protection measures should be Other skin protection

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Respirator selection must be based on known or anticipated exposure levels, the Respiratory protection

> 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. Filter type: organic vapour (Type A) and particulate filter P3

**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. Not available. **Odour threshold** : insoluble in water. pН

: May start to solidify at the following temperature: <-7°C (<19.4°F) This is based Melting point/freezing point

on data for the following ingredient: 4-nonylphenol, branched. Weighted average:

-86.3°C (-123.3°F)

Initial boiling point and boiling

range

: >37.78°C

: Closed cup: 29.3°C Flash point

**Evaporation rate** Highest known value: 0.84 (ethylbenzene) Weighted average: 0.78compared

with butyl acetate

Material supports combustion. : Yes. Flammability (solid, gas) : liquid

Upper/lower flammability or

explosive limits

: Createst known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol)

: Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted Vapour pressure

average: 0.9 kPa (6.75 mm Hg) (at 20°C)

: Highest known value: 7.59 (Air = 1) (4-nonylphenol, branched). Weighted Vapour density

average: 3.96 (Air = 1)

: 1.42 **Relative density** 

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## SECTION 9: Physical and chemical properties

: Insoluble in the following materials: cold water. Solubility(ies)

Partition coefficient: n-octanol/ : Not applicable.

water

: Lowest known value: 270°C (518°F) (1-methoxy-2-propanol). **Auto-ignition temperature** 

**Decomposition temperature** 

: Stable under recommended storage and handling conditions (see Section 7).

**Viscosity** : Kinematic (40°C): >0.21 cm<sup>2</sup>/s

: Product does not present an explosion hazard. **Explosive properties Oxidising properties** : Product does not present an oxidizing hazard.

#### 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 Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds Formaldehyde. metal oxide/oxides

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<b>x</b> ylene	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	-
epoxy resin (700 < MW <	LD50 Dermal	Rabbit	>2 g/kg	-
1100)				
	LD50 Oral	Rat	>2 g/kg	-
diiron trioxide	LD50 Oral	Rat	10 g/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	4000 ppm	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-

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## **SECTION 11: Toxicological information**

Naphtha (petroleum),	LD50 Oral	Rat	0.58 g/kg	-
	LC50 Inhalation Vapour	Rat	8500 mg/m³	4 hours
hydrotreated heavy	LD50 Oral	Rat	>6 g/kg	-

**Conclusion/Summary**: Not available.

**Acute toxicity estimates** 

Route	ATE value
Dermal	23899.9 mg/kg 5246 mg/kg 46.58 mg/l

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

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
xylene	Category 3	Not applicable.	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	Not applicable.	Narcotic effects

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 2		central nervous system (CNS), kidneys and liver
crystalline silica, respirable powder (<10 microns) ethylbenzene	Category 1 Category 2		Not determined hearing organs

### **Aspiration hazard**

Product/ingredient name	Result	
xylene ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1	

Information on likely routes of exposure

: Not available.

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## **SECTION 11: Toxicological information**

Potential acute health effects

**Inhalation** : May cause respiratory irritation.

**Ingestion** : Corrosive to the digestive tract. Causes burns.

**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:

respiratory tract irritation

coughing

**Ingestion** : Adverse symptoms may include the following:

stomach pains

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

**Eye contact** : Adverse symptoms may include the following:

pain or irritation

watering redness

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

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects: Not available.

Long term exposure

Potential immediate : Not available.

effects

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 : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties 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,

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## **SECTION 11: Toxicological information**

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.

Contains epoxy resin (700 < MW < 1100). May produce an allergic reaction.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b></b> rmethoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours
Nonylphenols	Acute LC50 0.017 mg/l	Fish - Pleuronectes americanus	96 hours

**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

Product/ingredient name	LogPow	BCF	Potential
xylene	3.16	7.4 to 18.5	low
ethylbenzene	3.15	79.43	low
4-nonylphenol, branched	-	251.19	low

### 12.4 Mobility in soil

Soil/water partition : Not available.

coefficient (Koc)

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.

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## **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 hazardous 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.

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 spilt 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.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(4-nonylphenol, branched)	Not applicable.

#### **Additional information**

ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

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## 14. Transport information

**Tunnel code** 

: (D/E)

**ADN** 

: The product is only regulated as an environmentally hazardous substance when transported in

tank vessels.

**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.

14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

: Not applicable.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

## Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
4-nonylphenol, branched	Substance of equivalent concern for environment	Candidate	ED/169/2012	12/19/2012
Phenol, 2-nonyl-, branched	Substance of equivalent concern for environment	Candidate	ED/169/2012	10/29/2013

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

## **Other EU regulations**

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
4-nonylphenol, branched	-	-	Repr. 2, H361d	Repr. 2, H361f
			(Unborn child)	(Fertility)
Nonylphenols	-	-	Repr. 2, H361d	Repr. 2, H361f
 1			(Unborn child)	(Fertility)

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

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## **SECTION 15: Regulatory information**

## **Category**

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

E2: Hazardous to the aquatic environment - Chronic 2

6: Flammable (R10)

9ii: Toxic for the environment

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

<b>⊬</b> 225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372 (inhalation)	Causes damage to organs through prolonged or repeated exposure if 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.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]

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## **SECTION 16: Other information**

Acute Tox. 4, H302
Acute Tox. 4, H312
Acute Tox. 4, H312
Acute Tox. 4, H332
Acute Tox. 4, H332
Acute Tox. 4, H332
Aquatic Acute 1, H400
Aquatic Chronic 1, H410
Aquatic Chronic 2, H411
Aquatic Chronic 4, H413
Acute Tox. 4, H332
Acute Tox. 4, H331 - Category 4
Acute Tox. 4, H332 - C

Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH071 Corrosive to the respiratory tract.

Eye Dam. 1, H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eve Irrit. 2. H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 2, H225
Flam. Liq. 3, H226
Flam. Sol. 1, H228
FLAMMABLE LIQUIDS - Category 2
FLAMMABLE LIQUIDS - Category 3
FLAMMABLE SOLIDS - Category 1

Repr. 2, H361fd REPRODUCTIVE TOXICITY (Fertility and Unborn child) - Category

2

Skin Corr. 1B, H314
Skin Irrit. 2, H315
SKIN CORROSION/IRRITATION - Category 1B
SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1, H317 SKIN SENSITISATION - 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

Water-react. 2, H261 SUBSTANCES AND MIXTURES WHICH IN CONTACT WITH

WATER EMIT FLAMMABLE GASES - Category 2

### **History**

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revision

Date of previous issue : 6 March 2017

Prepared by : EHS Version : 15.03

#### **Disclaimer**

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