# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 17 September 2017

Version : 16.03



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

1.1 Product identifier	
Product name	: STEELGUARD 2458
Product code	: 00289264
Other means of identification	: Not available.
1.2 Relevant identified use	es of the substance or mixture and uses advised against
1.2 Relevant identified use Product use	es of the substance or mixture and uses advised against : Professional applications, Used by spraying.

#### 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 : PMC.Safety@PPG.com responsible for this SDS

### 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 STOT SE 3, H335 STOT RE 2, H373

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.

#### 2.2 Label elements

English (GB)

SECTION 2: Hazards identification         Hazard pictograms       :         Warning       :         Hazard statements       :         Filammable liquid and vapour. Causes serious eye irritation. May cause respiratory irritation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breather vapour.         Response       :       I'FI-INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EVES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         Storage       :       Storage or not avail-ventilated place. Keep cool.         Disposal       :       Not applicable.	Code : 00289264 STEELGUARD 2458	Date of issue/Date of revision : 17 September 2017
Signal word       :       Warning         Hazard statements       :       Flammable liquid and vapour. Causes schiuritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.         Precautionary statements       If wear protective gloves. Wear protective clothing. 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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         Storage       :       Storage         Disposal       :       Not applicable.         :       :       ?230.         Hazardous ingredients       :       :         :       :       :         Supplemental label       :       :         elements       :       :         Supplements       :       :         :       :       :         :       :       :         :       :       :         :       :       :	<b>SECTION 2: Hazards</b>	identification
Hazard statements       : Flammable liquid and vapour. Causes skin irritation. Causes skin irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.         Precautionary statements	Hazard pictograms	
Hazard statements       : Flammable liquid and vapour. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.         Precautionary statements       Prevention       : Wear protective gloves. Wear protective clothing. 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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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, P303 + P361 + P353, P305 + P351 + P338, P403, P235         Hazardous ingredients       : Store in a well-ventilated place. Keep cool.         Supplemental label elements       : Sortaine epoxy constituents. May produce an allergic reaction. Contains N,N'- ethane-1.2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.         Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles       : Not applicable.         Zothainers to be fitted with child-resistant fastenings       : Not applicable.         Zo ther hazards       : Not applicable.         Other hazards       : Prolonged or repeated contact may dry sk	Signal word	: Warning
Prevention       : Wear protective gloves. Wear protective clothing. 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       : FINHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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.         P230, P210, P260, P304 + P340, P303 + P361 + P353, P305 + P351 + P338, P403, P235         Hazardous ingredients       : Øfene         Supplemental label elements       : Øfene         . Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles       : Not applicable.         Special packaging requirements       : Not applicable.         Containers to be fitted with child-resistant fastenings       : Not applicable.         Tactile warning of danger       : Not applicable.         2.3 Other hazards       : Prolonged or repeated contact may dry skin and cause irritation.		<ul> <li>Flammable liquid and vapour.</li> <li>Causes serious eye irritation.</li> <li>Causes skin irritation.</li> <li>May cause respiratory irritation.</li> </ul>
Response       : If INHALED: Remove person to fresh ar and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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.         #280, P210, P260, P304 + P340, P303 + P361 + P353, P305 + P351 + P338, P403, P235         Hazardous ingredients       : Melene         Supplemental label       : Contains epoxy constituents. May produce an allergic reaction. Contains N,N'- ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.         Annex XVII - Restrictions       : Not applicable.         placing on the market and use of certain dangerous substances, mixtures and articles       : Not applicable.         Special packaging requirements       : Not applicable.         Containers to be fitted with child-resistant fastenings       : Not applicable.         Tactile warning of danger       : Not applicable.         2.3 Other hazards       : Prolonged or repeated contact may dry skin and cause irritation.	Precautionary statements	
SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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, P303 + P361 + P353, P305 + P351 + P338, P403, P235         Hazardous ingredients       : Molene         Supplemental label elements       : Molene         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 fastenings       : Not applicable.         Tactile warning of danger       : Not applicable.         2.3 Other hazards       Other hazards which do	Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Disposal       : Not applicable.         P280, P210, P260, P304 + P340, P303 + P361 + P353, P305 + P351 + P338, P403, P235         Hazardous ingredients       : Miene         Supplemental label       : Ontains epoxy constituents. May produce an allergic reaction. Contains N,N'- ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.         Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles       : Not applicable.         Special packaging requirements       : Not applicable.         Containers to be fitted with child-resistant fastenings       : Not applicable.         Tactile warning of danger       : Not applicable.         2.3 Other hazards       Other hazards which do	Response	SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with wate IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses
P280, P210, P260, P304 + P340, P303 + P361 + P353, P305 + P351 + P338, P403, P235         Hazardous ingredients       : Mene         Supplemental label       : Contains epoxy constituents. May produce an allergic reaction. Contains N,N'- ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.         Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles       : Not applicable.         Special packaging requirements       : Not applicable.         Containers to be fitted with child-resistant fastenings       : Not applicable.         Tactile warning of danger       : Not applicable.         2.3 Other hazards       Other hazards which do	Storage	: Store in a well-ventilated place. Keep cool.
P235         Hazardous ingredients       : Ølene         Supplemental label elements       : Øontains epoxy constituents. May produce an allergic reaction. Contains N,N'- ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.         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 fastenings Tactile warning of danger       : Not applicable.         2.3 Other hazards       Other hazards       : Prolonged or repeated contact may dry skin and cause irritation.	Disposal	: Not applicable.
Supplemental label       : Contains epoxy constituents. May produce an allergic reaction. Contains N,N'- ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.         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 fastenings Tactile warning of danger       : Not applicable.         2.3 Other hazards       Other hazards which do       : Prolonged or repeated contact may dry skin and cause irritation.		P235
elements       ethane-1,2-divibis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.         Annex XVII - Restrictions       : Not applicable.         on the manufacture,       placing on the market and         use of certain dangerous       substances, mixtures and         substances, mixtures and       articles         Special packaging requirements       Containers to be fitted         Containers to be fitted       : Not applicable.         with child-resistant       fastenings         Tactile warning of danger       : Not applicable.         2.3 Other hazards       Other hazards which do         Other hazards which do       : Prolonged or repeated contact may dry skin and cause irritation.	Hazardous ingredients	: xylene
on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles <u>Special packaging requirements</u> Containers to be fitted : Not applicable. with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.		
Containers to be fitted with child-resistant fastenings Tactile warning of danger       : Not applicable.         2.3 Other hazards       .         Other hazards which do       : Prolonged or repeated contact may dry skin and cause irritation.	on the manufacture, placing on the market and use of certain dangerous substances, mixtures and	: Not applicable.
with child-resistant fastenings         Tactile warning of danger       : Not applicable.         2.3 Other hazards         Other hazards which do       : Prolonged or repeated contact may dry skin and cause irritation.	Special packaging requirem	<u>ents</u>
<ul> <li>2.3 Other hazards</li> <li>Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.</li> </ul>	with child-resistant	: Not applicable.
<b>Other hazards which do</b> : Prolonged or repeated contact may dry skin and cause irritation.	Tactile warning of danger	: Not applicable.
	2.3 Other hazards	
		: Prolonged or repeated contact may dry skin and cause irritation.

3.2 Mixtures

: Mixture

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Code	1	00289264
STEELGUA		2458

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: 17 September 2017

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

			<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	≥25 - ≤49	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]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥5.0 - ≤8.7	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	[1] [2]
epoxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6	<1.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	<1.0	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d (Unborn child) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	[1] [2]
			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.

<u>Type</u>

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

[6] Additional disclosure due to company policy

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

SUB codes represent substances without registered CAS Numbers.

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# **SECTION 4: First aid measures**

4.1 Description of first aid m	neasures
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	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
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.

Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/</u>	symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	<ul> <li>Adverse symptoms may include the following: respiratory tract irritation coughing</li> </ul>
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

# A.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

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SECTION 5: Firefig	nting measures
Hazards from the substance or mixture	: Fammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides sulfur oxides carbonyl halides 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.	
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, pro	tective 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 environment pollution (sewers, waterways, soil or air).	
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 at 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 ar 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 at 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 no combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous ear 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 spill product.	o on- rth a
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.	
English (GB)	United Kingdom (UK)	5/17

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### **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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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. See Section 10 for incompatible materials before handling or use.
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** 

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

Product/ingredient name	Exposure limit values
<b>x</b> ylene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.
	STEL: 441 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 552 mg/m <sup>3</sup> 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 441 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
toluene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 191 mg/m <sup>3</sup> 8 hours.
	TWA: 50 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**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
xylene	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m³	Workers	Local
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	77 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	174 mg/m³	Consumers	Systemic
	DNEL	Short term Inhalation	174 mg/m³	Consumers	Local
	DNEL	Long term Dermal	108 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	14.8 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	Consumers	Systemic
ethylbenzene	DNEL	Long term Inhalation	77 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m³	Workers	Local
English (GB)		United Kingdon	ו (UK)		7/1

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ECTION 8: Exposure	controls/p	ersonal protec	ction		
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	15 mg/m³	Consumers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	Consumers	Systemic
toluene	DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	192 mg/m³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m³	Workers	Local
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	56.5 mg/m³	Consumers	Systemic
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Inhalation	56.5 mg/m³	Consumers	Local
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	Consumers	Local
	DNEL	Long term Dermal	226 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	8.13 mg/ kg bw/day	Consumers	Systemic
		1			

# PNECs

Product/ingredient name	Туре	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	-
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	-
toluene	-	Fresh water	0.68 mg/l	Sensitivity Distribution
	-	Marine water	0.68 mg/l	Sensitivity Distribution
	-	Sewage Treatment	13.61 mg/l	Sensitivity Distribution
		Plant		
	-	Fresh water sediment	16.39 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	16.39 mg/kg dwt	-

### 8.2 Exposure controls

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SECTION 8: Exposur	e controls/personal protection
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 measu	<u>ires</u>
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 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	
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 estimate 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 of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended.
Gloves	<ul> <li>For prolonged or repeated handling, use the following type of gloves:</li> <li>Not recommended: nitrile rubber Recommended: polyvinyl alcohol (PVA), Viton®</li> </ul>
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

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 protectionAppropriate footwear and any additional skin protection measures should be<br/>selected based on the task being performed and the risks involved and should be<br/>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. Wear a respirator conforming to EN140. 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.

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# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties				
<u>Appearance</u>				
Physical state	:	Liquid.		
Colour	:	Various		
Odour	:	Aromatic.		
Odour threshold	1	Not available.		
рН	1	insoluble in water.		
Melting point/freezing point	:	May start to solidify at the following temperature: -94.9°C (-138.8°F) This is based on data for the following ingredient: ethylbenzene. Weighted average: -94.95°C (-138.9°F)		
Initial boiling point and boiling range	:	>37.78°C		
Flash point	:	Closed cup: 25°C		
Evaporation rate	;	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.78compared with butyl acetate		
Material supports combustion.	:	Yes.		
Flammability (solid, gas)	1	liquid		
Upper/lower flammability or explosive limits	:	Lower: 0.83% Upper: 6.44%		
Vapour pressure	:	Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.95 kPa (7.13 mm Hg) (at 20°C)		
Vapour density	:	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.7 (Air = 1)		
Relative density	:	1.23		
Solubility(ies)	:	Insoluble in the following materials: cold water.		
Partition coefficient: n-octanol/ water	:	Not applicable.		
Auto-ignition temperature	:	Lowest known value: 432°C (809.6°F) (xylene).		
Decomposition temperature	:	Stable under recommended storage and handling conditions (see Section 7).		
Viscosity	:	Kinematic (room temperature): >4 cm²/s Kinematic (40°C): >0.21 cm²/s		
Explosive properties	:	Product does not present an explosion hazard.		
Oxidising properties	:	Product does not present an oxidizing hazard.		

#### 9.2 Other information

No additional information.

SECTION 10: Stabi	lity and reactivity	
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredier	nts.
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	r.
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.	
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onforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830
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# **SECTION 10: Stability and reactivity**

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 sulfur oxides carbonyl halides metal oxide/oxides

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
N,N'-ethane-1,2-diylbis	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
(12-hydroxyoctadecan-			_	
1-amide)				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

Conclusion/Summary Acute toxicity estimates

Route	ATE value
	3024.1 mg/kg 27.25 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>x</b> ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Conclusion/Summary	: Not available.				
Sensitisation					
Conclusion/Summary	: Not available.				
Mutagenicity					
Conclusion/Summary	: Not available.				
<b>Carcinogenicity</b>					
<b>Conclusion/Summary</b>	: Not available.				
Reproductive toxicity					
<b>Conclusion/Summary</b>	: Not available.				
Teratogenicity					
Conclusion/Summary	: Not available.				
Specific target organ toxicity	<u>/ (single exposure)</u>				

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# **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3		Respiratory tract irritation
toluene	Category 3	Not applicable.	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 2	Not determined	central nervous system (CNS), kidneys and liver
ethylbenzene toluene		Not determined Not determined	hearing organs Not determined

#### Aspiration hazard

Produc	t/ingredient name	Result
xylene ethylbenzene toluene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health effe	ects	
Inhalation	: May cause respiratory in	ritation.
Ingestion	: No known significant ef	fects or critical hazards.
Skin contact	: Causes skin irritation.	Defatting to the skin.
Eye contact	: Causes serious eye irrit	ation.
Symptoms related to the p	ohysical, chemical and toxic	ological characteristics
Inhalation	: Adverse symptoms may respiratory tract irritation coughing	
Ingestion	: No specific data.	
Skin contact	: Adverse symptoms may irritation redness dryness cracking	y include the following:
Eye contact	: Adverse symptoms may pain or irritation watering redness	y include the following:
Delayed and immediate eff	fects as well as chronic effe	ects from short and long-term exposure
Short term exposure Potential immediate effects	: Not available.	
Potential delayed effect	s: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effect	s: Not available.	
Potential chronic health ef		
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# **SECTION 11: Toxicological information**

#### Not available.

<b>Conclusion/Summary</b>	: Not available.
General	<ul> <li>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.</li> </ul>
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: 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, 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 crosssensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains epoxy resin (MW ≤ 700), N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.

# SECTION 12: Ecological information

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	Acute EC50 29 to 43 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 94 mg/l	Daphnia - Daphnia magna	48 hours

onclusion/Summary

Not available.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
₩,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	63 % - 28 days	-	-

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## **SECTION 12: Ecological information**

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
viene ethylbenzene N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)			Readily Readily Readily
toluene	-	-	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
N,Ń'-ethane-1,2-diylbis (12-hydroxyoctadecan-	>6	-	high
1-amide)			
toluene	2.73	8.32	low

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.
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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	<ul> <li>The generation of waste should be avoided or minimised wherever possible. V packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.</li> </ul>	
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# **SECTION 13: Disposal considerations**

Type of packaging	European waste catalogue (EWC)	
Container	15 01 06 mixed packaging	
Special precautions	taken when Empty cont residues ma container. I thoroughly i	al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with rays, 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	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

ADR/RID	<ul> <li>This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.</li> <li>1.5.1.</li> </ul>
Tunnel code	: (D/E)
ADN	<ul> <li>This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.</li> <li>1.5.1.</li> </ul>
IMDG	: This class 3 viscous liquid is not subject to regulation in packagings up to 30 L according to 2.3.2.5.
IATA	: None identified.
14.6 Special pred user	cautions for : 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	: Not applicable.
according to Annex II of	
Marpol and the IBC Code	

# **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

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#### SECTION 15: Regulatory information

None of the components are listed.

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

substances, mixtures and articles

#### **Other EU regulations**

Ozone depleting substances (1005/2009/EU)

Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

#### Category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b 6: Flammable (R10)

# **15.2 Chemical safety**

: No Chemical Safety Assessment has been carried out.

#### assessment

### 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 PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway IMDG = International Maritime Dangerous Goods IATA = International Air Transport Association

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

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H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H361d	Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated	
11070	exposure.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Full text of classifications [CLP/GHS		
Acute Tox. 4, H312	ACUTE TOXICITY (dermal) - Category 4	
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4	
Aquatic Chronic 2, H411	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
Aquatic Chronic 3, H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Asp. Tox. 1, H304	ASPIRATION HAZARD - 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	
Repr. 2, H361d	REPRODUCTIVE TOXICITY (Unborn child) - Category 2	
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1, H317	SKIN SENSITISATION - Category 1	
Skin Sens. 1B, H317	SKIN SENSITISATION - Category 1B	
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	

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#### <u>Disclaimer</u>

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