



**Safety Data Sheet**  
**according to Regulation (EC)**  
**No. 2015/830**

## 1. Identification of the Substance/Mixture and the Company/Undertaking

- |            |  |   |                         |            |
|------------|--|---|-------------------------|------------|
| <b>1.1</b> | <b>Product Identifier</b>  | 8325  | <b>Revision Date:</b>   | 18/01/2021 |
|            | <b>Product Name:</b>   | CARBOMASTIC 25 PART A   | <b>Supersedes Date:</b> | New SDS    |
|            |  |   | <b>Version Number:</b>  | 1          |
| <b>1.2</b> | <b>Relevant identified uses of the substance or mixture and uses advised against</b> | Base component of 2 components coating - Industrial use.<br>Advised against: Please see Technical Data Sheet. |                         |            |
|            | <b>Product to be mixed with:</b>   | CARBOMASTIC 25 PART B   |                         |            |
|            | <b>Mixing ratio by volume Part A/<br/>Part B:</b>                                    | 1:1   |                         |            |
| <b>1.3</b> | <b>Details of the supplier of the safety data sheet</b>                              |   |                         |            |
|            | <b>Importer:</b>   | None  |                         |            |
|            | <b>Manufacturer:</b>   | Carboline Norge AS<br>Postboks 593<br>3412 Lierstranda<br>Norway  |                         |            |
|            |  | Regulatory / Technical Information:<br>+47 32 85 73 00<br>+47 32 85 74 00                                     |                         |            |
|            | <b>Datasheet Produced by:</b>  | Chen, Shi - hms@carboline.com   |                         |            |
| <b>1.4</b> | <b>Emergency telephone number:</b>   | CHEMTREC +1 703 5273887 (Outside US)  |                         |            |

## 2. Hazard Identification

### 2.1 Classification of the substance or mixture

**Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008**

Hazardous to the aquatic environment, Chronic, category 2  
 Eye Irritation, category 2  
 Flammable Liquid, category 3  
 Skin Irritation, category 2  
 Skin Sensitizer, category 1

**HAZARD STATEMENTS**

Other EU extensions	EUH205
Flammable Liquid, category 3	H226
Skin Irritation, category 2	H315
Skin Sensitizer, category 1	H317
Eye Irritation, category 2	H319
Hazardous to the aquatic environment, Chronic, category 2	H411

**2.2 Label elements****Symbol(s) of Product****Signal Word**

Warning

**Named Chemicals on Label**

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700), phenol, methylstyrenated

**HAZARD STATEMENTS**

Other EU extensions	EUH205	Contains epoxy constituents. May produce an allergic reaction.
Flammable Liquid, category 3	H226	Flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment, Chronic, category 2	H411	Toxic to aquatic life with long lasting effects.

**PRECAUTION PHRASES**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P337+313	If eye irritation persists: Get medical advice/attention.

**2.3 Other hazards**

No Information

**Results of PBT and vPvB assessment:**

The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

**3. Composition/Information On Ingredients****3.2 Mixtures****Hazardous Ingredients**

<u>CAS-No.</u>	<u>EINEC No.</u>	<u>Name According to EEC</u>	<u>%</u>
25068-38-6	500-033-5	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	25 - <50
14807-96-6	238-877-9	talc	10 - <25
13463-67-7	236-675-5	titanium dioxide	2.5 - <10

1330-20-7	215-535-7	xylene	2.5 - <10
68512-30-1	270-966-8	phenol, methylstyrenated	2.5 - <10
107-98-2	203-539-1	1-methoxypropan-2-ol	2.5 - <10
100-41-4	202-849-4	ethylbenzene	1.0 - <2.5
108-10-1	203-550-1	4-methylpentan-2-one	1.0 - <2.5
61788-44-1	262-975-0	phenol, styrenated	0.1 - <1.0
14808-60-7		quartz (silicon dioxide)	0.1 - <1.0

<u>CAS-No.</u>	<u>REACH Reg No.</u>	<u>CLP Symbols</u>	<u>CLP Hazard Statements</u>	<u>M-Factors</u>
25068-38-6	01-2119456619-26	GHS07-GHS09	H315-317-319-411	
14807-96-6				
13463-67-7	01-2119489379-17			
1330-20-7	01-2119488216-32	GHS02-GHS07-GHS08	H226-304-312-315-319-332-335-373	
68512-30-1	01-2119555274-38	GHS07	H315-317-412	
107-98-2	01-2119457435-35	GHS02-GHS07	H226-336	
100-41-4	01-2119489370-35	GHS02-GHS07-GHS08	H225-304-332-373-412	
108-10-1	01-2119473980-30	GHS02-GHS07	H225-319-332-335	
61788-44-1	01-2119980970-27	GHS07-GHS09	H315-317-411	
14808-60-7		GHS08	H372	

**Remarks:** CAS No. 25068-38-6 identified as CAS No. 1675-54-3, EC No. 216-823-5 under REACH Registration  
CAS No. 68512-30-1 identified as EC No. 700-960-7 under REACH Registration

**Additional Information:** The text for CLP Hazard Statements shown above (if any) is given in Section 16.

## 4. First-aid Measures

### 4.1 Description of First Aid Measures

**GENERAL NOTES:** Show this safety data sheet to the doctor in attendance.

**AFTER INHALATION:** Move to fresh air. Give oxygen or artificial respiration if needed. When risk of unconsciousness, place and transport the victim in secured recovery position. Provide fresh air, rest and warmth. Call a physician immediately.

**AFTER SKIN CONTACT:** Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Do not use solvent or thinners to clean skin.

**AFTER EYE CONTACT:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

**AFTER INGESTION:** Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously: Keep head below hips to prevent aspiration of stomach vomit into lungs. Provide fresh air, rest and warmth.

#### Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. 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

May cause sensitization by skin contact. Irritating to eyes and skin.

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

Treat symptomatically.

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

When symptoms persist or in all cases of doubt seek medical advice.

## 5. Fire-fighting Measures

### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

**FOR SAFETY REASONS NOT TO BE USED:** Alcohol, Alcohol based solutions, any other media not listed above.  
Do not use a solid water stream as it may scatter and spread fire.

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

Heating or fire conditions liberates toxic gas. Flash back possible over considerable distance. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Vapours may form explosive mixtures with air. Solvent vapours are heavier than air and may spread along floors and ignite.

**5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Keep containers and surroundings cool with water spray.

**6. Accidental Release Measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

**6.2 Environmental precautions**

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

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

Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

**6.4 Reference to other sections**

Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

**7. Handling and Storage****7.1 Precautions for safe handling**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only explosion-proof equipment. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Apply technical measures to comply with the occupational exposure limits (see section 8). People handling polyurethane or epoxy products must have received special training according to guidelines from the National Occupational Health and Safety Board. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

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

**CONDITIONS TO AVOID:** Avoid heat, sparks, flames and other ignition sources.

**STORAGE CONDITIONS:** Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in upright position only. Storage of flammable liquids.

**7.3 Specific end use(s)**

No specific advice for end use available.

**8. Exposure Controls/Personal Protection****8.1 Control parameters****Ingredients with Occupational Exposure Limits (EU)**

<u>Name</u>	<u>CAS-No.</u>	<u>LTEL ppm</u>	<u>STEL ppm</u>	<u>STEL mg/m3</u>	<u>LTEL mg/m3</u>
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	25068-38-6				
talc	14807-96-6				
titanium dioxide	13463-67-7				

xylene	1330-20-7	50	100	442	221
phenol, methylstyrenated	68512-30-1				
1-methoxypropan-2-ol	107-98-2	100	150	568	375
ethylbenzene	100-41-4	100	200	884	442
4-methylpentan-2-one	108-10-1	20	50	208	83
phenol, styrenated	61788-44-1				
quartz (silicon dioxide)	14808-60-7				

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
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Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

talc	14807-96-6	
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titanium dioxide	13463-67-7	
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xylene	1330-20-7	Can be absorbed through the skin.
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phenol, methylstyrenated	68512-30-1	
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1-methoxypropan-2-ol	107-98-2	Can be absorbed through the skin.
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ethylbenzene	100-41-4	Can be absorbed through the skin.
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4-methylpentan-2-one	108-10-1	Can be absorbed through the skin.
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phenol, styrenated	61788-44-1	
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quartz (silicon dioxide)	14808-60-7	
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**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation. Annotations: Carc = Capable of causing cancer and/or heritable genetic damage, Sen = Capable of causing occupational asthma, Sk = Can be absorbed through the skin.

## 8.2 Exposure controls

### Personal Protection

**RESPIRATORY PROTECTION:** Wear a self-contained breathing apparatus or full-face airline respirator during spraying operations and long-term exposure. When working in confined or poorly ventilated spaces, a self-contained breathing apparatus or full-face airline respirator must be used. When painting small areas, or when using a roller or brush, respiratory protection with combination filter (dust and gas filter, EN 14387:2004+A1:2008) may be used: Gas filter type A2 (organic substances). Dust filter P3 (for fine dust).

**EYE PROTECTION:** If splashes are likely to occur, wear: Face-shield, tightly fitting safety goggles (EN 166).

**HAND PROTECTION:** Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Use chemical resistant gloves and lotions and barrier creams to prevent drying of the skin. Protective gloves complying with EN 374: Butyl rubber. Nitril rubber. Recommended glove material for mixed product: Protective gloves complying with EN 374: Butyl rubber. Nitril rubber.

**OTHER PROTECTIVE EQUIPMENT:** Ensure that eyewash stations and safety showers are close to the workstation location.

**ENGINEERING CONTROLS:** Ensure adequate ventilation, especially in confined areas.

**Chemical Name:**

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight &lt;= 700)

**EC No.:**

500-033-5

**CAS-No.:**

25068-38-6

**DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					0.75 mg/kg bw/day		0.75 mg/kg bw/day
Inhalation		12.25 mg/m3		12.25 mg/m3				
Dermal		8.33 mg/kg bw/day		8.33 mg/kg bw/day		3.571 mg/kg bw/day		3.571 mg/kg bw/day

**PNEC's - Predicted no effect concentration**

Environmental protection target	PNEC
Fresh water	0.006 mg/l
Fresh water sediments	0.996 mg/L
Marine water	0.0006 mg/l
Marine sediments	0.0996 mg/kg
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	0.196 mg/kg
Air	

**Chemical Name:**

titanium dioxide

**EC No.:**

236-675-5

**CAS-No.:**

13463-67-7

**DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required						10 mg/m <sup>3</sup>	700 mg/kg/ bw/day
Inhalation			10 mg/m <sup>3</sup>					
Dermal								

**PNEC's - Predicted no effect concentration**

Environmental protection target	PNEC
Fresh water	0.127 mg/L
Fresh water sediments	1000 mg/kg dw
Marine water	1 mg/L
Marine sediments	100 mg/kg dw
Food chain	1667 mg/kg (oral)
Microorganisms in sewage treatment	100 mg/kg
soil (agricultural)	100 mg/kg dw
Air	

**Chemical Name:**

xylene

**EC No.:**

215-535-7

**CAS-No.:**

1330-20-7

**DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required				174 mg/m <sup>3</sup>	174 mg/m <sup>3</sup>		
Inhalation	289 mg/m <sup>3</sup>	289 mg/m <sup>3</sup>		77 mg/m <sup>3</sup>				1.6 mg/kg bw/day
Dermal				180 mg/kg bw/day				14.8 mg/m <sup>3</sup>
								108 mg/kg bw/day

**PNEC's - Predicted no effect concentration**

Environmental protection target	PNEC
Fresh water	0.327 mg/L
Fresh water sediments	12.46 mg/kg
Marine water	0.327 mg/L
Marine sediments	12.46 mg/kg
Food chain	
Microorganisms in sewage treatment	6.58 mg/L
soil (agricultural)	2.31 mg/kg
Air	

**Chemical Name:**

phenol, methylstyrenated

**EC No.:**

270-966-8

**CAS-No.:**

68512-30-1

**DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							4 mg/kg/day
Inhalation				57 mg/m <sup>3</sup>				28 mg/m <sup>3</sup>
Dermal				16.4 mg/kg/day				8 mg/kg/day

**PNEC's - Predicted no effect concentration**

Environmental protection target	PNEC
Fresh water	14 µg/L
Fresh water sediments	52.9 mg/kg
Marine water	
Marine sediments	1.4 µg/L; 5.3 mg/kg
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	10.5 mg/kg
Air	

**Chemical Name:**

1-methoxypropan-2-ol

**EC No.:**

203-539-1

**CAS-No.:**

107-98-2

**DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required						3.3 mg/kg	43.9 mg/m <sup>3</sup>
Inhalation	553.5 mg/m <sup>3</sup>	553.5 mg/m <sup>3</sup>		369 mg/m <sup>3</sup>				18.1 mg/kg
Dermal				50.6 mg/kg bw/day				

**PNEC's - Predicted no effect concentration**

PNEC

Environmental protection target	
Fresh water	10 mg/L
Fresh water sediments	41.6 mg/kg
Marine water	1 mg/L
Marine sediments	4.17 mg/kg
Food chain	
Microorganisms in sewage treatment	100 mg/L
soil (agricultural)	2.47 mg/kg
Air	

**Chemical Name:**

4-methylpentan-2-one

**EC No.:**

203-550-1

**CAS-No.:**

108-10-1

**DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					115,2 mg/m <sup>3</sup>		4.2 mg/kg bw/day
Inhalation	208 mg/m <sup>3</sup>	208 mg/m <sup>3</sup>		83 mg/m <sup>3</sup>				14,7 mg/m
Dermal				11,8 mg/kg bw/day				4,2 mg/kg bw/day

**PNEC's - Predicted no effect concentration**

Environmental protection target	
Fresh water	PNEC
Fresh water sediments	600 µg/L
Marine water	8.27 mg/kg sediment dw
Marine sediments	60 µg/L
Food chain	0,83 mg/kg sediment dw
Microorganisms in sewage treatment	
soil (agricultural)	1.3 mg/kg soil dw
Air	

**9. Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	Misc. Colours
<b>Physical State</b>	Liquid
<b>Odor</b>	Solvent
<b>Odor threshold</b>	Not determined
<b>pH</b>	



	Not determined
<b>Melting point / freezing point (°C)</b>	Not determined
<b>Boiling point/range (°C)</b>	114 - 144
<b>Flash Point, (°C)</b>	26°C
<b>Evaporation rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not determined
<b>Upper/lower flammability or explosive limits</b>	1.0 - 13.7
<b>Vapour Pressure, mmHg</b>	Not determined
<b>Vapour density</b>	>1 (air = 1)
<b>Relative density</b>	Not determined
<b>Solubility in / Miscibility with water</b>	Negligible
<b>Partition coefficient: n-octanol/water</b>	Not determined
<b>Auto-ignition temperature (°C)</b>	287
<b>Decomposition temperature (°C)</b>	Not determined
<b>Viscosity</b>	90 - 100 KU
<b>Explosive properties</b>	Not determined
<b>Oxidising properties</b>	Not determined

## 9.2 Other information

<b>VOC Content g/l:</b>	187
<b>Grams of VOC per liter of coating product as applied per ISO 11890-1 and/or ISO 11890-2.</b>	
<b>Specific Gravity (g/cm<sup>3</sup>)</b>	1.58

## 10. Stability and Reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No reactivity hazards known under normal storage and use conditions.

### 10.4 Conditions to avoid

Avoid heat, sparks, flames and other ignition sources.

### 10.5 Incompatible materials

Keep away from strong oxidising agents and strongly acid or alkaline materials.

### 10.6 Hazardous decomposition products

In case of fire or hot work operations, hazardous decomposition products may be formed such as: Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), aliphatic amines, aldehydes, cyanides.

## 11. Toxicological Information

### 11.1 Information on toxicological effects

#### Acute Toxicity:

**Oral LD50:** No information available on the product itself as the product is not tested.

<b>Inhalation LC50:</b>	No information available on the product itself as the product is not tested.
<b>Irritation:</b>	Irritating to eyes and skin.
<b>Corrosivity:</b>	No information available.
<b>Sensitization:</b>	May cause an allergic skin reaction.
<b>Repeated dose toxicity:</b>	No information available.
<b>Carcinogenicity:</b>	No information available.
<b>Mutagenicity:</b>	No information available.
<b>Toxicity for reproduction:</b>	No information available.
<b>STOT-single exposure:</b>	No information available.
<b>STOT-repeated exposure:</b>	No information available.
<b>Aspiration hazard:</b>	No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested.  
Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>	<u>Gas LC50</u>	<u>Dust/Mist LC50</u>
25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	5000 mg/kg (oral-rat)	>2000 mg/kg (dermal, rat M-F)	No information	No information	No information
13463-67-7	titanium dioxide	>5000 mg/kg (oral-rat)	10000 mg/kg	No information	No information	>6.82 mg/L (inh-rat-4h)
1330-20-7	xylene	>2000 mg/kg (oral-rat)	1100 mg/kg (ATE dermal-rabbit)	11 mg/L (ATE inh/vapour)	4500 ppmV (ATE inh - Gas)	1.5 mg/L (ATE inh/dust/mist)
68512-30-1	phenol, methylstyrenated	>2000 mg/kg (oral-rat)	>2000 mg/kg (dermal-rat)	No information	No information	No information
107-98-2	1-methoxypropan-2-ol	4016 mg/kg (oral-rat)	>13000 mg/kg (dermal-rabbit)	10000 ppm/4hrs rat, inhalation	No information	No information
100-41-4	ethylbenzene	3500 mg/kg rat, oral	5510 mg/kg, rabbit	4000 ppm, rat, 4h	10000 ppm	1.5 mg/L
108-10-1	4-methylpentan-2-one	2080 mg/kg, (oral, rat)	>2000 mg/kg (dermal, rabbit)	11 mg/L	4500 ppm	1.5 mg/L
61788-44-1	phenol, styrenated	>2000 mg/kg (Oral-rat)	>2000 mg/kg (Dermal-rat)	No information	No information	No information

#### Additional Information:

This product may contain Ethyl Benzene, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. Chronic exposure causes drying effect on the skin and eczema. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Repeated skin contact leads to irritation and to sensitisation, possible with cross-sensitisation to other epoxies. Chronic exposure has been associated with various neurotoxic effects including permanent brain damage. The product is irritating to the eyes and may cause sensitisation to the respiratory system. Swallowing concentrated chemical may cause severe internal injury. Inhalation of vapour or mist can cause headache, nausea, irritation of nose, throat, and lungs.

## 12. Ecological Information

<b>12.1 Toxicity:</b>	
EC50 48hr (Daphnia):	No information
IC50 72hr (Algae):	No information
LC50 96hr (fish):	No information
<b>12.2 Persistence and degradability:</b>	No information
<b>12.3 Bioaccumulative potential:</b>	No information
<b>12.4 Mobility in soil:</b>	No information
<b>12.5 Results of PBT and vPvB assessment:</b>	The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.
<b>12.6 Other adverse effects:</b>	No information

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	1.8 mg/L (Daphnia magna, EC50, 48h,static)	11 mg/L (Scenedesmus capricornutum,EC50r, 72h)	1.5 mg/L (Rainbow trout), 3.6 mg/L (fish)
13463-67-7	titanium dioxide	>100 mg/l (EC50, 48h, Daphnia magna OECD202)	16 mg/l (EC50, 72h, Pseudokirchnerella subcapitata)	>100 mg/l (EC50, 96h, Oncorhynchus Mykiss OECD203)
1330-20-7	xylene	165 mg/L (Daphnia magna 24h)	3 - 5 mg/L (Selenastrum sp.)	2 - 11 mg/L (Roccus saxatilis), 8.2 mg/L (Salmo gairdneri), 13.5 mg/L (Lepomis macrarchirus), 21.0 mg/L (Pimephales promelas)
68512-30-1	phenol, methylstyrenated	14 - 51 mg/L (daphnia)	15 mg/L (algae)	25.8 mg/L (fish)
107-98-2	1-methoxypropan-2-ol	>21000 mg/L (Daphnia magna)	No information	6812 mg/L (Leuciscus idus)
100-41-4	ethylbenzene	1.37 mg/L	No information	32 mg/L (Bluegill)
108-10-1	4-methylpentan-2-one	>100 mg/L	>100 mg/L	>179 mg/L (Brachydanio rerio, LD50, 96h)
61788-44-1	phenol, styrenated	1-10 mg/L (EL50, daphnia)	3.14 mg/L (EL50, algae)	No information

## 13. Disposal Considerations

**13.1 WASTE TREATMENT METHODS:** Do not burn, or use a cutting torch on, the empty drum. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems.

**European Waste Code:** 08 01 11\*

**Packaging Waste Code:** 15 01 10\*

## 14. Transport Information

14.1	UN number	UN1263
14.2	UN proper shipping name	PAINT
	Technical name	Not applicable
14.3	Transport hazard class(es)	3
	Subsidiary shipping hazard	Not applicable
14.4	Packing group	III
14.5	Environmental hazards	Marine pollutant: Yes (Bisphenol A epoxy resin)
14.6	Special precautions for user	No Information
	EmS-No.:	F-E, S-E
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	No Information

## 15. Regulatory Information

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

#### National Regulations:

Denmark Product Registration Number:	Not available
Danish MAL Code:	Not available
Danish MAL Code - Mixture:	Not available
Sweden Product Registration Number:	Not available
Norway Product Registration Number:	Not available
WGK Class:	3
Covered by Directive 2012/18/EC (Seveso III):	P5c, E2
Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:	Entry 3, 40

#### Annex XIV - Authorisation List:

CAS-No.      Name According to EEC

Not Applicable

#### SVHC - Substances of very high concern (Candidate List):

CAS-No.      Name According to EEC

Not Applicable

### 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## 16. Other Information

**Text for CLP Hazard Statements shown in Section 3 describing each ingredient:**

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.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Reasons for revision**

This is a new Safety Data Sheet (SDS). . . .

## List of References

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark  
 ESIS (The European Chemical Substances Information System), provided by the European Commission  
 Joint Research Centre in Ispra, Italy  
 Annex VI of the EU Council Directive 67/548/EEC  
 Council Directive 67/548/EEC - Annex I or EU Council Directive 1999/45/EC  
 EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"

## Acronym &amp; Abbreviation Key

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m <sup>3</sup>	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road

RID International Transport of Dangerous Goods by Rail  
UN United Nations  
IMDG International Maritime Dangerous Goods Code  
IATA International Air Transport Association  
MARPOL International Convention for the Prevention of Pollution From Ships, 1973 as modified by  
the Protocol of 1978  
IBC International Bulk Container

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.