

# SAFETY DATA SHEET

## CARBOGUARD E19 PRIMER , PART A

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

<b>Product name</b>	CARBOGUARD E19 PRIMER , PART A
<b>Part No.</b>	8101
<b>*In-house No.</b>	8101
<b>Applications</b>	Two - component epoxy polyamide primer.
<b>Supplier</b>	STAR MALING OG LAKKFABRIKK A/S/ CARBOLINE NORGE A/S Postboks 593 3412 LIERSTRANDA NORWAY Tel: 32-857300 Fax: 32-857495
<b>Contact person</b>	Environmental department
<b>Manufacturer</b>	STAR MALING OG LAKKFABRIKK A/S Postboks 593 3412 LIERSTRANDA Tel: 32-857300 Fax: 32-857495

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS No.	Content	Symbol	R-phrases
xylene	215-535-7	1330-20-7	10-30 %	Xn	R-10, 20/21, 38
2-METHYLPROPAN-1-OL		78-83-1	5-10 %	Xi	R-10, 20, 37/38, 41, 67

See section 16 for explanations to R-phrases

**Composition comments**  
Key to the symbols: Tx= Very toxic, T= Toxic, C= Corrosive, Xn= Harmful, Xi= Irritant, IK= Not classified, E= Explosive, O= Oxidizing, Fx= Extremely flammable, F= Highly flammable, N= Dangerous to the environment, M= Mutagenic, A= Sensitizing, K= Carcinogenic, R= Toxic to reproduction  
Xylene, technical quality contain 14-20% ethylbenzene. (Cas-nr. 100-41-4).

---

### 3. HAZARDS IDENTIFICATION

---

Flammable. Irritating to eyes. Harmful by inhalation and in contact with skin. No available environmental data on this product, ref.section 12.

---

### 4. FIRST AID MEASURES

---

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When risk of unconsciousness, place and transport the victim in secured recovery position. Keep the affected person warm and at rest. Get prompt medical attention.
<b>Ingestion</b>	Provide rest, warmth and fresh air. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention.
<b>Skin</b>	Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Do NOT use solvents or thinners.
<b>Eyes</b>	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Make sure to remove any contact lenses from the eyes before rinsing.

---

### 5. FIRE FIGHTING MEASURES

---

<b>Extinguishing media</b>	Dry chemicals, sand, dolomite etc. Powder, foam or CO2.
<b>Special fire fighting procedures</b>	Avoid water in straight hose stream; will scatter and spread fire. Move container from fire area if it can be done without risk.
<b>Specific hazards</b>	Generates massive smoke during fire. Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may spread near ground to sources of ignition.
<b>Protective measures in fire</b>	Appropriate breathing apparatus may be required.

---

## 6. ACCIDENTAL RELEASE MEASURES

---

<b>Personal precaution in spill</b>	Wear necessary protective equipment, ref.section 8.
<b>Spill cleanup methods</b>	Provide ventilation and confine spill. Do not allow runoff to sewer. Collect with absorbent, non-combustible material into suitable containers.

---

## 7. HANDLING AND STORAGE

---

<b>Usage precautions</b>	Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Read and follow manufacturer's recommendations. Wear necessary protective equipment, ref. section 8.
<b>Storage precautions</b>	Keep in cool, dry, ventilated storage and closed containers.
<b>Storage criteria</b>	Flammable liquid storage.

---

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

---

Ingredient name	CAS No.	STD	LT Exp 8 Hrs	ST Exp 15 Min
xylene	1330-20-7	OES.	100 mg/m3(Sk)	
2-METHYLPROPAN-1-OL	78-83-1	OES.	105 mg/m3	
<b>Ingredient comments</b>	OES = Occupational Exposure Standard. 2001.			
<b>Protective equipment</b>				



### Process conditions

<b>Ventilation</b>	All handling to take place in well-ventilated area.
<b>Respirators</b>	At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Wear respiratory protection with combination filter (dust and gas filter) during spraying operations. Gas cartridge (organic substances).
<b>Protective gloves</b>	For prolonged or repeated skin contact use suitable protective

<b>Eye protection</b>	gloves. Use protective gloves made of: Polyvinyl alcohol (PVA). Viton rubber (fluor rubber).
<b>Other Protection</b>	If risk of splashing, wear safety goggles or face shield.
<b>Hygienic work practices</b>	Provide eyewash, quick drench.
	Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet. Use appropriate hand lotion to prevent defatting and cracking of skin.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

<b>Appearance</b>	Fluid.		
<b>Colour</b>	Grey. Red.		
<b>Odour</b>	Solvent.		
<b>Density/specific gravity (g/ml)</b>	1.56	<b>Temperature (°C)</b>	20
<b>Vapour density (air=1)</b>	> 1		
<b>Solubility description</b>	Soluble in: Organic solvents (most).		
<b>Flash point (°C)</b>	25		
<b>Auto ignition temp. (°C)</b>	340		
<b>*Flammability limit - lower(%)</b>	1		
<b>*Flammability limit - upper(%)</b>	11.30		

---

## 10. STABILITY AND REACTIVITY

---

<b>Stability</b>	Avoid: Heat, sparks, flames. Stable with normal handling.
<b>Hazardous decomp. products</b>	Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).

---

## 11. TOXICOLOGICAL INFORMATION

---

<b>Health warnings</b>	Solvent vapours are hazardous and may cause nausea, sickness and headaches. May cause sensitisation by skin contact, the product contains an high molecular epoxy resin (>700), solved in an organic solvent. Contact with this chemical may cause: Skin drying with risk of formation of eczema. Vapour may irritate respiratory system or lungs. Swallowing concentrated chemical may cause severe internal injury. Prolonged or repeated exposure to this chemical may cause:
------------------------	--

Brain damage.

INFORMATION ABOUT EHTYLBENZENE (EB) FROM IARC (International Agency for Research on Cancer) : IARC (2000) has classified EB as Category 2B carcinogen. The agent is possibly carcinogenic to humans.

**Medical considerations**

Chronic solvent-induced symptoms may give untypical (neurasthenically produced) impression of disease.

---

**12. ECOLOGICAL INFORMATION**

---

**Ecological information**

No available environmental data on this product.  
Environmental data, Xylen ( Cas.nr. 1330-20-7) :Do not bioaccumulate in aquatic environment. LC50 96h (fish): 2-11 mg/l Roccus saxatilis, 8,2 mg/l Salmo gairdneri, 13,5 mg/l Lepomis macrarchirus, 21,0 mg/l Pimephales promelas. EC50 24h (Daphnia): 1-5 mg/l, IC50 72h (algae): 3-5 mg/l Selenastrum sp. Degradation: OECD-test 301C: Readily degradable, BOD5/COD: ca.0,6. Bioaccumulation: BCF:80 fisk (calculated) 21-24 Anguilla japonica, Log Pow: 3,11 - 3,20. Environmental data, isobutanol (Cas.no.78-83-1) , readily degradable BOD5/COD:0,8, Bioaccumulation Log Pow >3, LC50 Guldid, 48h: 1200 mg/l, BC50 Daphnia magna, 24h: 1880 mg/l.

---

**13. DISPOSAL CONSIDERATIONS**

---

**Disposal methods**

Wastes should be delivered as hazardous waste. Do not allow runoff to sewer, waterway or ground.

**Waste class**

. 08 01 02. H 5 Harmful. H 3-B Flammable.

---

**14. TRANSPORT INFORMATION**

---

**UN No. road**

ROAD TRANSPORT:

1263

**ADR class**

Class 3: Flammable liquids.

**\*RID class No.**

RAIL TRANSPORT:

3

**\*IMDG class**

SEA TRANSPORT:

3.3

**\*EmS No.**

3-05

\*MFAAG table No. 310  
AIR TRANSPORT:  
\*IATA/ICAO packing group III

## 15. REGULATORY INFORMATION

### Label for supply



**Contains** xylene  
2-METHYLPROPAN-1-OL

**Risk phrases** R-10 Flammable.  
R-20/21 Harmful by inhalation and in contact with skin.  
R-36 Irritating to eyes.

**Safety phrases** S-23 Do not breathe fumes/vapour/aerosol mist.  
S-25 Avoid contact with eyes.  
S-38 In case of insufficient ventilation, wear suitable respiratory equipment.  
S-42 During fumigation/spraying wear suitable respiratory equipment.  
S-51 Use only in well-ventilated areas.

## 16. OTHER INFORMATION

**Explanations to R-phrases in section 2** R-10 Flammable. R-20/21 Harmful by inhalation and in contact with skin. R-38 Irritating to skin. R-20 Harmful by inhalation. R-37/38 Irritating to respiratory system and skin. R-41 Risk of serious damage to eye. R-67 Vapours may cause drowsiness and dizziness.

\* Information revised since the previous version of the SDS

**User notes:** The information in this safety-data sheet is based on our current knowledge. The user's working conditions are beyond our supervision. The responsibility to fulfill the demands determined in the national regulations always lies with the user. The information should be understood as a description of those safety requirements which are demanded on the product and is no guarantee for the properties of the product. This information may only be quoted with the producer's permit. The safety data sheet in Norwegian is OLF APPROVED.

**Issued by** STAR MALING OG LAKKFABRIKK A/S

<b>*Revision date</b>	2002-07-15
<b>*Rev. No./repl. SDS generated</b>	2000-12-18
<b>*Date</b>	2002-07-15
<b>*Signature</b>	I.V
<b>Printing date:</b>	2002-07-15