

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

# SECTION 1: Identification of the Substance/Mixture and the Company/Undertaking

**1.1 Product Identifier** 83200908 **Revision Date**: 24/09/2021

Product Name: CARBOMASTIC 18 FC PART B / CARBOMASTIC 18 FC CARBO-

KIT DADT D

KIT PART B

Version Number: 3

14/07/2021

Supercedes Date:

UFI Code: F5F0-T0FM-H00P-YXF3

1.2 Relevant identified uses of the substance or mixture and uses

advised against

Hardener for 2 components coatings - Industrial use. Advised against: Please see Technical Data Sheet.

Product to be mixed with: Mixing ratio by volume Part A/

Part B:

CARBOMASTIC 18 FC PART A / CARBOMASTIC 18 FC CARBO-KIT PART A

1:1

1.3 Details of the supplier of the safety data sheet

Importer: None

Manufacturer: Carboline Norge AS

Postboks 593 3412 Lierstranda

Norway

Regulatory / Technical Information:

+47 32 85 73 00 +47 32 85 74 00

Datasheet Produced by: Larsen, Beate - hms@carboline.com

1.4 Emergency telephone number: CHEMTREC +1 703 5273887 (Outside US)

# **SECTION 2: Hazard Identification**

#### 2.1 Classification of the substance or mixture

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

HAZARD STATEMENTS

Flammable Liquid, category 3

H226

H314-1B Skin Corrosion, category 1B H317 Skin Sensitizer, category 1 H411 Hazardous to the aquatic environment, Chronic, category 2

#### 2.2 Label elements

#### Symbol(s) of Product



#### Signal Word

Danger

#### Named Chemicals on Label

benzene-1,3-dimethanamine, 3-Aminomethyl-3,5,5-trimethylcyclohexylamine, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction, phenol, styrenated, phenol, methylstyrenated, Fatty acids, talloil, reaction products with bis-A, epichlorohydrin, glycidyl tolyl ether and TETA

#### **HAZARD STATEMENTS**

Flammable Liquid, category 3	H226	Flammable liquid and vapour.
Skin Corrosion, category 1B	H314-1B	Causes severe skin burns and eye damage.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
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.
	P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
	P333+313	If skin irritation or rash occurs: 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.

# **SECTION 3: Composition/Information On Ingredients**

#### 3.2 **Mixtures**

#### Hazardous ingredients

Name According to EEC talc	<b>EINEC No.</b> 238-877-9	<u>CAS-No.</u> 14807-96-6	<u><b>%</b></u> 10 - <25	<u>Classifications</u>	
phenol, methylstyrenated	270-966-8	68512-30-1	10 - <25	H315-317-412	Aquatic Chronic 3, Skin Irrit. 2, Skin Sens. 1

phenol, styrenated	262-975-0	61788-44-1	2.5 - <10	H315-317-411	Aquatic Chronic 2, Skin Irrit. 2, Skin Sens. 1
xylene	215-535-7	1330-20-7	2.5 - <10	H226-304-312-315 -319-332-335-373	Acute Tox. 4 Dermal, Acute Tox. 4 Inhalation, Asp. Tox. 1, Eye Irrit. 2, Flam. Liq. 3, Skin Irrit. 2, STOT RE 2, STOT SE 3 RTI
benzyl alcohol	202-859-9	100-51-6	2.5 - <10	H302-319-332	Acute Tox. 4 Inhalation, Acute Tox. 4 Oral, Eye Irrit. 2
Fatty acids, tall-oil, reaction products with bis-A, epichlorohydrin, glycidyl tolyl ether and TETA	606-078-8	186321-96-0	2.5 - <10	H315-317-318-400 -410	Aquatic Acute 1, Aquatic Chronic 1, Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1
4,4'- Isopropylidenediphenol, oligomeric reaction products with 1- chloro-2,3- epoxypropane, reaction	500-101-4	38294-64-3	2.5 - <10	H314-317-412	Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1
benzene-1,3- dimethanamine	216-032-5	1477-55-0	1.0 - <2.5	H302-314-317-332 -412	Acute Tox. 4 Inhalation, Acute Tox. 4 Oral, Aquatic Chronic 3, Corr. Resp., Skin Corr. 1B, Skin Sens. 1
Propan-2-ol	200-661-7	67-63-0	1.0 - <2.5	H225-319-336	Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 NE
Formaldehyde, polymer with N,N-dimethyl-1,3-propanediamine and phenol		445498-00-0	1.0 - <2.5	H302-400-410	Acute Tox. 4 Oral, Aquatic Acute 1, Aquatic Chronic 1
ethylbenzene	202-849-4	100-41-4	1.0 - <2.5	H225-304-332-373 -412	Acute Tox. 4 Inhalation, Aquatic Chronic 3, Asp. Tox. 1, Flam. Liq. 2, STOT RE 2
2,4,6-tris (dimethylaminomethyl) phenol	202-013-9	90-72-2	0.1 - <1.0	H302-314-318	Acute Tox. 4 Oral, Eye Dam. 1, Skin Corr. 1C

3-Aminomethyl-3,5,5- trimethylcyclohexylamin e	220-666-8	2855-13-2	0.1 - <1.0	H302-312-314-317 -412	Acute Tox. 4 Dermal, Acute Tox. 4 Oral, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1A
quartz (silicon dioxide)		14808-60-7	0.1 - <1.0	H372	STOT RE 1
salicylic acid	200-712-3	69-72-7	0.1 - <1.0	H302-318-361d	Acute Tox. 4 Oral, Eye Dam. 1, Repr. 2

<u>CAS-No.</u>	M-Factors	REACH Reg No.
14807-96-6		
68512-30-1		01-2119555274-38
61788-44-1		01-2119980970-27
1330-20-7		01-2119488216-32
100-51-6		01-2119492630-38
186321-96-0		01-2119983521-35
38294-64-3		01-2119965165-33
1477-55-0		01-2119480150-50
67-63-0		01-2119457558-25
445498-00-0		
100-41-4		01-2119489370-35
90-72-2		01-2119560597-27
2855-13-2		01-2119514687-32
14808-60-7		
69-72-7		01-2119486984-17

Remarks: 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.

# **SECTION 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. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Do not use solvent or thinners to clean skin.

**AFTER EYE CONTACT:** Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

**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

Causes burns. May cause sensitization by skin contact. Vapours may cause drowsiness and dizziness. Causes serious eye damage.

#### 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.

# **SECTION 5: Fire-fighting Measures**

#### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

**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

Fire will produce dense black smoke containing hazardous combustion products (see section 10). 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.

## **SECTION 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). Clean with detergents. Avoid solvents.

#### 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.

#### **SECTION 7: Handling and Storage**

#### 7.1 Precautions for safe handling

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). 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. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Open drum carefully as content may be under pressure. 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.

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. Store away from: oxidising materials, acids, and alkalis.

#### 7.3 Specific end use(s)

The mixing and application to be in accordance with the technical data sheets.

# **SECTION 8: Exposure Controls/Personal Protection**

# 8.1 Control parameters

# Ingredients with Occupational Exposure Limits (EU)

<u>Name</u>	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
talc	14807-96-6				
phenol, methylstyrenated	68512-30-1				
phenol, styrenated	61788-44-1				
xylene	1330-20-7	50	100	442	221
benzyl alcohol	100-51-6				
Fatty acids, tall-oil, reaction products with bis- A, epichlorohydrin, glycidyl tolyl ether and TETA	186321-96-0				
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-	38294-64-3				
epoxypropane, reaction benzene-1,3-dimethanamine	1477-55-0				
Propan-2-ol	67-63-0				
Formaldehyde, polymer with N,N-dimethyl-1,3 propanediamine and phenol					
ethylbenzene	100-41-4	100	200	884	442
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2				
3-Aminomethyl-3,5,5-trimethylcyclohexylamine	e 2855-13-2				
quartz (silicon dioxide)	14808-60-7				
salicylic acid	69-72-7				
<u>Name</u>	CAS-No.	OEL Note			
talc	14807-96-6				
phenol, methylstyrenated	68512-30-1				
phenol, styrenated	61788-44-1				
xylene	1330-20-7	Can be absorbe	ed through the ski	n.	
benzyl alcohol	100-51-6				
Fatty acids, tall-oil, reaction products with bis- A, epichlorohydrin, glycidyl tolyl ether and TETA	186321-96-0				
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction	38294-64-3				
benzene-1,3-dimethanamine	1477-55-0				
Propan-2-ol	67-63-0				
Formaldehyde, polymer with N,N-dimethyl-1,3 propanediamine and phenol	d- 445498-00-0				
ethylbenzene	100-41-4	Can be absorbe	ed through the ski	n.	
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2				

3-Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2

quartz (silicon dioxide) 14808-60-7

salicylic acid 69-72-7

**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 respiratory protection with combination filter (dust and gas filter, EN 14387:2004 +A1:2008) during spraying operations: Gas filter type A2 (organic substances). Dust filter P3 (for fine dust). When working in confined or poorly ventilated spaces, a battery powered assisted air-fed mask must be used.

EYE PROTECTION: Face-shield. Safety glasses with side-shields conforming to EN166.

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: Nitrile rubber. Butyl rubber. Viton®. 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:**

phenol, methylstyrenated

**EC No.: CAS-No.:** 270-966-8 68512-30-1

#### **DNELs - Derived no effect level**

	Workers					Consumers		
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral	Not required						4 mg/kg/day	
Inhalation				57 mg/m3				28 mg/m3
Dermal				16.4 mg/kg/day				8 mg/kg/day

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:**

xylene

**EC No.: CAS-No.:** 215-535-7 1330-20-7

#### **DNELs - Derived no effect level**

		W	orkers		Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral	Not required			174 mg/m <sup>3</sup>	174 mg/m <sup>3</sup>		1.6 mg/kg bw/	
Inhalation	289 mg/m <sup>3</sup>	289 mg/m <sup>3</sup>		77 mg/m³			_	day
Dermal			_	180 mg/kg bw/				14.8 mg/m <sup>3</sup>
				day				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:**

benzyl alcohol

**EC No.: CAS-No.:** 202-859-9 100-51-6

#### **DNELs - Derived no effect level**

	Workers				Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral	Not required				20 mg/kg bw/	5 mg/kg bw/	4 mg/kg bw/day	
Inhalation		110 mg/m <sup>3</sup>		22 mg/m3		day	day	5.4 mg/m3
Dermal		40 mg/kg bw/		8 mg/kg bw/day		27 mg/m3		4 mg/kg bw/day
	_	day				20 mg/kg bw/		
			_			day		

Environmental protection target	PNEC
Fresh water	1 mg/L
Fresh water sediments	5.27 mg/kg wwt
Marine water	0.1 mg/L
Marine sediments	0.527 mg/kg wwt
Food chain	
Microorganisms in sewage treatment	39 mg/L
soil (agricultural)	0.456 mg/kg wwt
Air	

#### **Chemical Name:**

Fatty acids, tall-oil, reaction products with bis-A, epichlorohydrin, glycidyl tolyl ether and TETA

**EC No.: CAS-No.:** 606-078-8 186321-96-0

#### **DNELs - Derived no effect level**

	Workers				Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral		Not	required					1.67 mg/kg bw/
Inhalation				23.5 mg/m3				day
Dermal	3.			3.33 mg/kg bw/				5.8 mg/m3
				day				1.67 mg/kg bw/
								day

PNEC's - Predicted no effect concentration

Environmental protection target	
	PNEC
Fresh water	0.186 ug/l
Fresh water sediments	0.005 mg/kg
Marine water	0.019 ug/l
Marine sediments	0.005 mg/kg
Food chain	
Microorganisms in sewage treatment	1.58 mg/l
soil (agricultural)	0.00089 mg/kg
Air	

#### **Chemical Name:**

benzene-1,3-dimethanamine

**EC No.:** CAS-No.: 216-032-5 1477-55-0

#### **DNELs - Derived no effect level**

		Wo	orkers		Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral		Not	required					
Inhalation			0.2 mg/m <sup>3</sup>	1.2 mg/m <sup>3</sup>				
Dermal	0.33 mg/kg bw/				PNEC			
	_			day		TIVEO		

Environmental protection target	
Fresh water	0.094 mg/L
Fresh water sediments	0.43 mg/kg
Marine water	0.0094 mg/L
Marine sediments	0.043 mg/kg
Food chain	
Microorganisms in sewage treatment	10 mg/L
soil (agricultural)	0.045 mg/kg
Air	

#### **Chemical Name:**

Propan-2-ol

**EC No.: CAS-No.:** 200-661-7 67-63-0

#### **DNELs - Derived no effect level**

	Workers				Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral		Not	required					26 mg/kg bw/day
Inhalation								89 mg/m3
Dermal		_		888 mg/kg				319 mg/kg bw/
					_			day

PNEC's - Predicted no effect concentration

Environmental protection target	
	PNEC
Fresh water	140.9 mg/l
Fresh water sediments	552 mg/kg
Marine water	140.9 mg/l
Marine sediments	552 mg/kg
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	28 mg/kg
Air	

#### **Chemical Name:**

2,4,6-tris(dimethylaminomethyl)phenol

**EC No.: CAS-No.:** 202-013-9 90-72-2

#### **DNELs - Derived no effect level**

		Wo	orkers		Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral		Not	required	<u> </u>				
Inhalation			4.9 mg/m3	0.31 mg/m3				
Dermal		_		-	_	PNEC		

Environmental protection target	
Fresh water	0.084 mg/l
Fresh water sediments	
Marine water	0.0084 mg/l
Marine sediments	
Food chain	
Microorganisms in sewage treatment	0.2 mg/l
soil (agricultural)	
Air	

#### **Chemical Name:**

 $3\hbox{-}Am in omethyl\hbox{-} 3,5,5\hbox{-} trimethyl cycloh exylamine$ 

**EC No.: CAS-No.:** 220-666-8 2855-13-2

#### DNELs - Derived no effect level

		Wo	orkers		Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral		Not	required					0.526 mg/kg
Inhalation	20.1	20.1			_			bodyweight/day
Dermal			_					

PNEC's - Predicted no effect concentration

1 1420 0 1 rodiolog no chool consonitation	PNEC
Environmental protection target	
Fresh water	0.06 mg/l
Fresh water sediments	5.784 mg/kg
Marine water	0.006mg/l
Marine sediments	0.578 mg/kg (dry weight)
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	1.121 mg/kg (dry weight)
Air	

#### **Chemical Name:**

salicylic acid

**EC No.: CAS-No.:** 200-712-3 69-72-7

#### **DNELs - Derived no effect level**

	Workers				Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral		Not required				4 mg/kg bw/	0.0002 mg/L	1 mg/kg bw/day
Inhalation			5 mg/m3	5 mg/m3		day		4 mg/m3
Dermal				2.3 mg/kg bw/			_	1 mg/kg bw/day
				day				

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

	PNEC
Environmental protection target	
Fresh water	0.20 mg/L
Fresh water sediments	1.42 mg/kg dw
Marine water	0.020 mg/L
Marine sediments	0.142 mg/kg dw
Food chain	
Microorganisms in sewage treatment	162 mg/L
soil (agricultural)	0.166 mg/kg dw
Air	

# **SECTION 9: Physical and Chemical Properties**

9.1 Information on basic physical and chemical properties

Appearance: Off-White

Physical State Liquid

Odor Solvent

Odor threshold Not determined

pH Not determined

Melting point / freezing point (°C) Not determined

Boiling point/range (°C) 82 - 144

Flash Point, (°C) 26

Evaporation rate Not determined

Flammability (solid, gas) Not determined

Upper/lower flammability or explosive

limits

1.0 - 12.0

Vapour Pressure, mmHg

Vapour density

>1 (air = 1)

Relative density

1.47 - 1.57

Solubility in / Miscibility with water

Negligible

Partition coefficient: n-octanol/water Not determined

Auto-ignition temperature (°C) 425

Decomposition temperature (°C)

Viscosity

90 - 100 KU

Explosive properties

Not determined

Oxidising properties

Not determined

9.2 Other information

VOC Content g/l: 110

Grams of VOC per liter of coating product as applied per ISO 11890-1 and/or ISO 11890-2.

Specific Gravity (g/cm3) 1.54

# **SECTION 10: Stability and Reactivity**

#### 10.1 Reactivity

No reactivity hazards known under recommended storage and use conditions.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No reactivity hazards known under recommended 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 (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), aliphatic amines, aldehydes, cyanides.

# **SECTION 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.

Inhalation LC50: No information available on the product itself as the product is not tested.

Vapour/spray mist may irritate respiratory system and lungs.

Irritation:

**Corrosivity:** Corrosive to eyes and skin.

Sensitization: May cause an allergic skin reaction.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

**Toxicity for reproduction:** No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: Swallowing concentrated chemical may cause severe internal injury

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:

CAS-No.	Name According to EEC	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
68512-30-1	phenol, methylstyrenated	>2000 mg/kg (oral-rat)	>2000 mg/kg (dermal-rat)	No information	No information	No information
61788-44-1	phenol, styrenated	>2000 mg/kg (Oral-rat)	>2000 mg/kg (Dermal-rat)	No information	No information	No information
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)
100-51-6	benzyl alcohol	1620 mg/kg rat	2980 mg/kg, rabbit	No information	No information	>4.178 mg/L (4h/ rat, mist)
1477-55-0	benzene-1,3-dimethanamine	1514 mg/kg (oral, rat)	>2000 mg/kg (dermal, rabbit)	No information	No information	No information
67-63-0	Propan-2-ol	5840 mg/kg (oral, rat)	13900 mg/kg (dermal, rabbit)	>25 mg/L (inhalation, vapor, rat)	No information	No information
445498-00-0	Formaldehyde, polymer with N,N-dimethyl-1,3-propanediamine and phenol	>300 mg/kg (LD50 Oral, rat F)	No information	No information	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
90-72-2	2,4,6-tris (dimethylaminomethyl)phenol	2169 mg/kg (oral, rat)	2110 mg/kg (dermal, rabbit)	No information	No information	No information
2855-13-2	3-Aminomethyl-3,5,5- trimethylcyclohexylamine	1030 mg/kg (oral-rat)	1840 mg/kg (dermal-rabbit)	No information	No information	>5.01 mg/L (inhal., dust/mist, rat)
69-72-7	salicylic acid	891 mg/kg (oral-rat)	>2000 mg/kg (dermal-rat)	900 mg/m³ (1 hr-inh-rat)	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. Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Respiration of solvent vapour may cause dizziness. Corrosive - causes irreversible eye damage. This product may contain Quartz (silicon dioxide), which is listed by IARC as a known carcinogenic to humans (Group 1). This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities. Chronic exposure causes drying effect on the skin and eczema. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Corrosive to skin. Gas or vapour is harmful on prolonged exposure or in high concentrations. Irritant of eyes and mucous membranes. CNS depressant. Inhalation is the main hazard in industrial use. The solvent vapours can be harmful and cause headaches, nausea, and intoxication. Acts as a defatting agent on skin. Chronic exposure has been associated with various neurotoxic effects including permanent brain damage. Inhalation of vapour or mist can cause headache, nausea, irritation of nose, throat, and lungs.

# **SECTION 12: Ecological Information**

#### 12.1 Toxicity:

EC50 48hr (Daphnia):No informationIC50 72hr (Algae):No informationLC50 96hr (fish):No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

**12.4 Mobility in soil:**No information

12.5 Results of PBT and vPvB

assessment:

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

**12.6** Other adverse effects: No information available on the product itself as the product is not tested.

CAS-No.	Name According to EEC	EC50 48hr	IC50 72hr	LC50 96hr
68512-30-1	phenol, methylstyrenated	14 - 51 mg/L (daphnia)	15 mg/L (algae)	25.8 mg/L (fish)
61788-44-1	phenol, styrenated	1-10 mg/L (EL50, daphnia)	3.14 mg/L (EL50, algae)	No information
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 macrichirus), 21.0 mg/L (Pimephales promelas)
100-51-6	benzyl alcohol	230 mg/L (Daphnia Magna)	770 mg/L (EgC50, Selenastrum capricornutum)	400 mg/L (fish)
186321-96-0	Fatty acids, tall-oil, reaction products with bis-A, epichlorohydrin, glycidyl tolyl ether and TETA	0.705 mg/L (Daphnia magna)	0.186 mg/L (Selenastrum capricornutum, ErC50)	1.806 mg/L (Oncorhynchus mykiss)
1477-55-0	benzene-1,3-dimethanamine	15.2 mg/L (Daphnia magna)	33.3 mg/L (EC50, Pseudokirchneriella subcapitata)	87.6 mg/L (Oryzias latipes)
67-63-0	Propan-2-ol	9714 mg/L (Daphnia magna, 24h)	>100 mg/L (Scenedesmus subspicatus, EC50)	9640 mg/L (Pimephales promelas)
445498-00-0	Formaldehyde, polymer with N,N-dimethyl-1,3-propanediamine and phenol	24 mg/L (Daphnia, EC50, 48h, static)	>0.219 mg/L (Algae, EC50, 72h, static)	40 mg/L (fish, LC50, 96h, static)
100-41-4	ethylbenzene	1.37 mg/L	No information	32 mg/L (Bluegill)

2,4,6-tris(dimethylaminomethyl)phenol 90-72-2

718 mg/L (EC50, 96h, Palaeomonetes

84 mg/L (EC50, 72h, Desmodesmus

175 mg/L (LC50, 96h, Cyprinus carpio)

2855-13-2

3-Aminomethyl-3.5.5trimethylcyclohexylamine 23 mg/L (Daphnia magna)

vulgaris)

37 mg/L (EC50, Desmodesmus

subspicatus)

subspicatus)

110 mg/L (Leuciscus idus)

69-72-7 salicylic acid

870 mg/L (Daphnia magna)

>100 mg/L (EC50, Desmodesmus subspicatus)

1370 mg/L (Pimephales promelas)

# **SECTION 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. Rags/wiping cloths and the like, moistened with flammable liquids, must be discarded into designated fireproof buckets. 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\* 15 01 10\* Packaging Waste Code:

# **SECTION 14: Transport Information**

14.1 UN number UN3469

14.2 UN proper shipping name PAINT, FLAMMABLE, CORROSIVE

Not applicable **Technical name** 

3 14.3 Transport hazard class(es) 8 Subsidiary shipping hazard

14.4 Packing group

Marine pollutant: Yes (Fatty acids, tall-oil, reaction products with bis-A, 14.5 **Environmental hazards** 

epichlorohydrin, glycidyl tolyl ether and TETA)

14.6 Special precautions for user No Information

EmS-No.: F-E, S-C

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

No Information

# **SECTION 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: 2 - 5

Danish MAL Code - Mixture: 2 - 5

**Sweden Product Registration Number:** Not available

**Norway Product Registration Number:** P-92428

WGK Class:

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.

# SECTION 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.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Reasons for revision

Changes have been made to Section 2 of the Safety Data Sheet (SDS). Please refer to the Hazard Identification information in Section 2 of this 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

Council Directive 6//548/EEC - Annex 1 or EU Council Directive 1999/45/EC EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"

#### Acronym & Abbreviation Key

Classification, Labeling & Packaging Regulation

EC European Commission European Union EU United States US

CAS Chemical Abstract Service

European Inventory of Existing Chemical Substances EINECS

REACH Registration, Evaluation, Authorization of Chemicals Regulation Globally Harmonized System of Classification and Labeling of Chemicals GHS

Long term exposure limit LTEL STEL Short term exposure limit OEL Occupational exposure limit

Parts per million mag

mg/m3 Milligrams per cubic meter

Threshold Limit Value TLV

ACGIH American Conference of Governmental Industrial Hygienists

American Contelence of 11
Occupational Safety & Health Administration OSHA

Permissible Exposure Limits PEL VOC Volatile organic compounds

Grams per liter g/l

milligrams per kilogram mg/kg

N/ANot applicable Lethal dose at 50% LD50

Lethal concentration at 50% LC50

EC50 Half maximal effective concentration Half maximal inhibitory concentration IC50 Persistent bioaccumulative toxic chemical PBT vPvB Very persistent and very bioaccumulative

European Economic Community EEC

International Transport of Dangerous Goods by Road ADR International Transport of Dangerous Goods by Rail RID

UN United Nations

International Maritime Dangerous Goods Code IMDG International Air Transport Association

MARPOL International Convention for the Prevention of Pollution From Ships, 1973 as modified by

the Protocol of 1978

TBC. 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 quidance 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.