



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



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

<b>1.1 Product Identifier</b>	10859001	<b>Revision Date:</b>	30/11/2016
<b>Product Name:</b>	CARBOZINC 859 - B	<b>Supersedes Date:</b>	29/04/2015
		<b>Version Number:</b>	1

**1.2 Relevant identified uses of the substance or mixture and uses advised against**      Component of multicomponent industrial coatings - Industrial use.

**Product to be mixed with:**      CARBOZINC 859 - Part A & C  
**Mixing ratio by volume Part A/  
 Part B:**      5 / 2.8 / 3.5

**1.3 Details of the supplier of the safety data sheet**

**Importer:**      StonCor Europe  
 9, Rue du Travail - 1400 Nivelles, Belgium

**Manufacturer:**      Carboline Italia, S.p.a.  
 Via Margherita Vigano' De Vizzi . n 77  
 20092 Cinisello Balsamo (MI)  
 Italy

Regulatory / Technical Information:  
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**SECTION 2: Hazard Identification**

**2.1 Classification of the substance or mixture**

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

**HAZARD STATEMENTS**

Skin drying or cracking	EUH066
Flammable Liquid, category 2	H225
Aspiration Hazard, category 1	H304
Skin Corrosion, category 1C	H314-1C
Skin Sensitizer, category 1	H317
STOT, single exposure, category 3, NE	H336
Reproductive_ToxicityD_category_2	H361d
STOT, repeated exposure, category 2	H373
Hazardous to the aquatic environment, Chronic, category 3	H412

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

Danger

**Named Chemicals on Label**

2,4,6-tris(dimethylaminomethyl)phenol, Toluene, xylene, methyleneoxide, polymer with benzenamine, hydrogenated

**HAZARD STATEMENTS**

Skin drying or cracking	EUH066	Repeated exposure may cause skin dryness or cracking.
Flammable Liquid, category 2	H225	Highly flammable liquid and vapour.
Aspiration Hazard, category 1	H304	May be fatal if swallowed and enters airways.
Skin Corrosion, category 1C	H314-1C	Causes severe skin burns and eye damage.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Reproductive_ToxicityD_category_2	H361d	Suspected of damaging the unborn child.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment, Chronic, category 3	H412	Harmful to aquatic life with long lasting effects.

**PRECAUTION PHRASES**

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P301	IF SWALLOWED:
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P308+P313	IF exposed or concerned: Get medical advice/attention
P331	Do NOT induce vomiting.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

**2.3 Other hazards**

No Information

**Results of PBT and vPvB assessment:**

No information

**SECTION 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>
108-88-3	203-625-9	Toluene	25-50
67-63-0	200-661-7	Propan-2-ol	10-25
135108-88-2	603-894-6	methyleneoxide, polymer with benzenamine, hydrogenated	2.5-10
90-72-2	202-013-9	2,4,6-tris(dimethylaminomethyl)phenol	2.5-10
100-51-6	202-859-9	Benzyl alcohol	2.5-10
123-86-4	204-658-1	n-butyl acetate	2.5-10
1330-20-7	215-535-7	xylene	1.0-2.5
140-31-8	205-411-0	2-piperazin-1-ylethylamine	1.0-2.5
100-41-4	202-849-4	Ethylbenzene	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>
108-88-3	01-2119471310-51	GHS02-GHS07-GHS08	H225-304-315-336-361d-373-412	
67-63-0	01-2119457558-25	GHS02-GHS07	H225-319-336	
135108-88-2	01-2119983522-33	GHS05-GHS07-GHS08	H302-312-314-317-373-412	
90-72-2	01-2119560597-27	GHS05-GHS07	H302-314-317-412	
100-51-6	01-2119492630-38	GHS07	H302-319-332	
123-86-4	01-2119485493-29	GHS02-GHS07	H226-336	
1330-20-7	01-2119488216-32	GHS02-GHS07-GHS08	H226-304-312-315-319-332-335-373	
140-31-8	01-2119471486-30	GHS05-GHS06	H302-311-314-317-412	
100-41-4	01-2119489370-35	GHS02-GHS07-GHS08	H225-304-332-373-412	

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

AFTER INHALATION: Move to fresh air. Consult a physician after significant exposure.

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.

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

AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

**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**

No Information

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

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

## 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.

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

No Information

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. High volume water jet. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## SECTION 6: Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

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

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

FURTHER INSTRUCTIONS: 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

Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapours or spray mist.

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: Direct sources of heat.

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

### 7.3 Specific end use(s)

No specific advice for end use available.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Ingredients with Occupational Exposure Limits (UK WELS)

<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>
Toluene	108-88-3	50	100	384	191
Propan-2-ol	67-63-0	400	500	1250	999
methyleneoxide, polymer with benzenamine,135108-88-2 hydrogenated					
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2				

Benzyl alcohol	100-51-6				
n-butyl acetate	123-86-4	150	200	966	724
xylene	1330-20-7	50	100	441	220
2-piperazin-1-ylethylamine	140-31-8				
Ethylbenzene	100-41-4	100	125	552	441

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
Toluene	108-88-3	Sk
Propan-2-ol	67-63-0	
methyleneoxide, polymer with benzenamine, hydrogenated	135108-88-2	
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	
Benzyl alcohol	100-51-6	
n-butyl acetate	123-86-4	
xylene	1330-20-7	Sk
2-piperazin-1-ylethylamine	140-31-8	
Ethylbenzene	100-41-4	Sk

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.

## 8.2 Exposure controls

### Personal Protection

RESPIRATORY PROTECTION: Respirator with a vapour filter (EN 141). Respirator with filter for organic vapor.

EYE PROTECTION: Tightly fitting safety goggles. Face-shield.

HAND PROTECTION: Rubber or plastic gloves. 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). Protective gloves complying with EN 374. Long sleeved clothing. Remove and wash contaminated clothing before re-use. Rubber or plastic apron.

OTHER PROTECTIVE EQUIPMENT: No Information

ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

**Chemical Name:**

Toluene

**EC No.:**

203-625-9

**CAS-No.:**

108-88-3

**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							8.13 mg/kg bw/day
Inhalation	384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3	226 mg/m3	226 mg/m3	56.5 mg/m3	56.5 mg/m3
Dermal				384 mg/Kg bw/day				226 mg/Kg bw/day

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

Environmental protection target	PNEC
Fresh water	0.68 mg/l
Fresh water sediments	16.39 mg/kg
Marine water	0.68 mg/l
Marine sediments	16.39 mg/kg
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	2.89 mg/kg
Air	

**Chemical Name:**

Propan-2-ol

**EC No.:**

200-661-7

**CAS-No.:**

67-63-0

**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						26 mg/kg	
Inhalation				500 mg/m3				89 mg/m3
Dermal				888 mg/kg				319 mg/kg

**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.:**

202-013-9

**CAS-No.:**

90-72-2

**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							
Inhalation			4.9 mg/m <sup>3</sup>	0.31 mg/m <sup>3</sup>				
Dermal								

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

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

**Chemical Name:**

Benzyl alcohol

**EC No.:**

202-859-9

**CAS-No.:**

100-51-6

**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							
Inhalation		110 mg/m <sup>3</sup>		22 mg/m <sup>3</sup>		25 mg/Kg bw/day		5 mg/Kg bw/day
Dermal		40 mg/kg bw/day		8 mg/kg bw/day		40.55 mg/m <sup>3</sup>		8.11 mg/m <sup>3</sup>
						28.5 mg/Kg bw/day		5.7 mg/Kg bw/day

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

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 soil (agricultural)	39 mg/l
Air	0.456 mg/Kg wwt

**Chemical Name:**

n-butyl acetate

**EC No.:**

204-658-1

**CAS-No.:**

123-86-4

**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							
Inhalation	960 mg/m <sup>3</sup>	960 mg/m <sup>3</sup>	480 mg/m <sup>3</sup>	480 mg/m <sup>3</sup>	859.7 mg/m <sup>3</sup>	859.7 mg/m <sup>3</sup>	102.34 mg/m <sup>3</sup>	102.34 mg/m <sup>3</sup>
Dermal		7 mg/kg bw/day			No hazard identified	6 mg/kg bw/day		

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

Environmental protection target	PNEC
Fresh water	0.18 mg/l
Fresh water sediments	0.981 mg/kg
Marine water	0.018 mg/l
Marine sediments	0.0981 mg/kg
Food chain	
Microorganisms in sewage treatment	35.6 mg/L
soil (agricultural)	0.0903 mg/kg
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							
Inhalation	289 mg/m <sup>3</sup>	289 mg/m <sup>3</sup>		77 mg/m <sup>3</sup>	174 mg/m <sup>3</sup>	174 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:**

2-piperazin-1-ylethylamine

**EC No.:**

205-411-0

**CAS-No.:**

140-31-8

**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				0.02 mg/kg bw/day	1.5 mg/kg bw/day		0.3 mg/kg bw/day
Inhalation		21.4 mg/m3		3.6 mg/m3		5.3 mg/m3		0.9 mg/m3
Dermal		20 mg/kg bw/day	0.006 mg/cm2	3.3 mg/kg bw/day		10 mg/kg bw/day	0.003 mg/cm2	1.7 mg/cm2

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

Environmental protection target	PNEC
Fresh water	0.058 mg/l
Fresh water sediments	215 mg/kg dwt
Marine water	0.0058 mg/l
Marine sediments	21.5 mg/kg bwt
Food chain	
Microorganisms in sewage treatment	82.2 mg/l
soil (agricultural)	42.9 mg/kg dwt
Air	

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

<b>Appearance:</b>	Not determined
<b>Physical State</b>	Liquid
<b>Odor</b>	Not determined
<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>	80 - 140 °C
<b>Flash Point, (°C)</b>	3
<b>Evaporation rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not determined
<b>Upper/lower flammability or explosive limits</b>	Not determined
<b>Vapour Pressure</b>	Not determined
<b>Vapour density</b>	Not determined
<b>Relative density</b>	Not determined
<b>Solubility in / Miscibility with water</b>	Not determined
<b>Partition coefficient: n-octanol/water</b>	Not determined
<b>Auto-ignition temperature (°C)</b>	Not determined
<b>Decomposition temperature (°C)</b>	Not determined
<b>Viscosity</b>	

	Not determined
<b>Explosive properties</b>	Not determined
<b>Oxidising properties</b>	Not determined

**9.2 Other information**

<b>VOC Content g/l:</b>	326
<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/cm3)</b>	0.88

## SECTION 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**

Hazardous polymerisation may occur.

**10.4 Conditions to avoid**

Direct sources of heat.

**10.5 Incompatible materials**

Strong oxidizing agents.

**10.6 Hazardous decomposition products**

Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

## SECTION 11: Toxicological Information

**11.1 Information on toxicological effects****Acute Toxicity:**

<b>Oral LD50:</b>	No Information
<b>Inhalation LC50:</b>	No Information

**Irritation:** No information available.

**Corrosivity:** No information available.

**Sensitization:** No information available.

**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:** 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>
108-88-3	Toluene	5000 mg/kg rat oral	14000 mg/kg rabbit	8000 ppm/4hrs, rat, inhalation
67-63-0	Propan-2-ol	4720 mg/kg rat, oral		22500 ppm/8hrs rat, inhalation
135108-88-2	methyleneoxide, polymer with benzenamine, hydrogenated	367 mg/kg (Oral, rat)	>1000 mg/Kg (Dermal, rabbit)	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	2169 mg/kg oral, rat	2110 mg/kg rabbit	
100-51-6	Benzyl alcohol	1230 mg/kg rat, oral	2980 mg/kg, rabbit, dermal	
123-86-4	n-butyl acetate	10760 mg/kg, rat, oral	14112 mg/Kg (rabbit)	23.4 mg/l/4/h (rat)
1330-20-7	xylene	>2000 mg/kg, rat, oral	3200 mg/kg, rabbit, dermal	20 mg/L (inh/vapour/rat)
140-31-8	2-piperazin-1-ylethylamine	1999 mg/kg, oral, rat	866 mg/kg, dermal, rabbit	
100-41-4	Ethylbenzene	3500 mg/kg rat, oral		

**Additional Information:**

N15.00000561 &lt;undefined&gt;N15.00000562 &lt;undefined&gt;

## SECTION 12: Ecological Information

**12.1 Toxicity:**

<b>EC50 48hr (Daphnia):</b>	No information
<b>IC50 72hr (Algae):</b>	No information
<b>LC50 96hr (fish):</b>	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:**

No information

**12.6 Other adverse effects:**

No information

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
108-88-3	Toluene	No information	No information	
67-63-0	Propan-2-ol	No information	No information	4200 mg/L (fish)
135108-88-2	methyleneoxide, polymer with benzenamine, hydrogenated	6.84 mg/l (EC50, 48h, Daphnia magna)	140 - 200 mg/l (EC50, 72h, Alga)	46 - 100 mg/l (LC50, 96h, Leuciscus idtrus)
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	No information	84mg/l (EC50, 72h, Scendesmus subspicatus)	175 mg/L (LC50, 96h, Cyprinus carpio)
100-51-6	Benzyl alcohol	400 mg/L (daphnia magna)	700 mg/L (algae)	10 mg/L (fish)
123-86-4	n-butyl acetate	No information	No information	18 mg/L (Pimephales promelas)
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 macrochirus), 21.0 mg/L (Pimephales promelas)

140-31-8	2-piperazin-1-ylethylamine	No information	1000 mg/l (EC50,72h, Algae)	2190 mg/l (EC50, 96h, fish)
100-41-4	Ethylbenzene	No information	No information	No information

### Further Ecological Information

Contains the following ingredients which are classified as water dangerous according to EEC directive No. 76/464/EEC in percentages > 1%.

<u>CAS-No.</u>	<u>Name According to EEC</u>
135108-88-2	methyleneoxide, polymer with benzenamine, hydrogenated
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol
140-31-8	2-piperazin-1-ylethylamine

### SECTION 13: Disposal Considerations

**13.1 WASTE TREATMENT METHODS:** If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**European Waste Code:** 080111\*  
**Packaging Waste Code:** 150110

### SECTION 14: Transport Information

<b>14.1 UN number</b>	UN3469
<b>14.2 UN proper shipping name</b>	PAINT, FLAMMABLE, CORROSIVE
<b>Technical name</b>	Not applicable
<b>14.3 Transport hazard class(es)</b>	3 (8)
<b>Subsidiary shipping hazard</b>	Not applicable
<b>14.4 Packing group</b>	II
<b>14.5 Environmental hazards</b>	Marine Pollutant: NO
<b>14.6 Special precautions for user</b>	Not applicable
<b>EmS-No.:</b>	F-E, S-C
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code</b>	Not applicable

### SECTION 15: Regulatory Information

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

**National Regulations:**

<b>Denmark Product Registration Number:</b>	Not available
<b>Danish MAL Code:</b>	Not available
<b>Danish MAL Code - Mixture:</b>	Not available
<b>Sweden Product Registration Number:</b>	Not available
<b>Norway Product Registration Number:</b>	Not available
<b>WGK Class:</b>	2
<b>Directive 2004/42/CE :</b>	380 g/l (subcat j)

**Chemical Safety Assessment:**

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

<b>SECTION 16: Other Information</b>
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**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.
H311	Toxic in contact with skin.
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.
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 exposure.
H412	Harmful to aquatic life with long lasting effects.

**Reasons for revision**

Composition Information Changed

Substance and/or Product Properties Changed in Section(s):

- 01 - Product Information
- 09 - Physical & Chemical Information
- 13 - Disposal Information
- 14 - Transportation Information
- 15 - Regulatory Information

Statement(s) Changed

This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

**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;  
 European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;  
 European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP);  
 EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

**Acronym & 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/m3	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
RTI	Respiratory Tract Irritation
NE	Narcotic Effects

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.