

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

### **DRY FLEX® COOL - Component B**

Date of compilation: 2016-10-10

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

### 1.1 Product identifier Trade name

# DRY FLEX® COOL - Component B not relevant (mixture)

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Specific process or activity professional use Elastic repair compound Use product only in combination with component B consumer uses

Uses advised against

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

Repair Care Cartografenweg 34 5140 AG Waalwijk Netherlands

Telephone: +31 (0) 416 650095 Telefax: +31 (0) 416 652024 e-mail: info@repair-care.com Website: www.repair-care.com e-mail (competent person)

info@repair-care.com

### 1.4 Emergency telephone number

National Poisons Information Service (NPIS): 0844-8920111 (UK only) For medical professionals only.

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat- egory	Hazard class and category	Hazard state- ment
3.10	acute toxicity (oral)	Cat. 4	(Acute Tox. 4)	H302
3.2	skin corrosion/irritation	Cat. 1B	(Skin Corr. 1B)	H314
3.3	serious eye damage/eye irritation	Cat. 1	(Eye Dam. 1)	H318
3.4S	skin sensitisation	Cat. 1	(Skin Sens. 1)	H317
3.7	reproductive toxicity	Cat. 2	(Repr. 2)	H361f
4.1A	hazardous to the aquatic environment - acute hazard	Cat. 1	(Aquatic Acute 1)	H400
4.1C	hazardous to the aquatic environment - chronic hazard	Cat. 1	(Aquatic Chronic 1)	H410

#### Remarks

For full text of H-phrases: see SECTION 16.

### The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Spillage and fire water can cause pollution of watercourses.



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2.2

Label elements Labelling according to Regulation (EC) No 1272/2008 (CLP) Signal word Danger

### Pictograms

GHS05, GHS07, GHS08, GHS09



### **Hazard statements**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
H410	Very toxic to aquatic life with long lasting effects.

### **Precautionary statements**

### **Precautionary statements - prevention**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary statements - response

Propoutionary state	mente dienees
P391	Collect spillage.
P321	Specific treatment (see on this label).
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353	IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower.

### **Precautionary statements - disposal**

P501 Dispose of contents/container to industrial combustion plant.

### Hazardous ingredients for labelling:

m-phenylenebis(methylamine), 4-tert-butylphenol, 2piperazin-1-ylethylamine, 2,4,6-tris(dimethylaminomethyl)phenol

### 2.3 Other hazards

There is no additional information.

### SECTION 3: Composition/information on ingredients

### 3.1 Substances

### not relevant (mixture)

### 3.2 Mixtures

### Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Classification acc. to 67/548/EEC
m-phenylenebis(methyl- amine)	CAS No 1477-55-0 EC No 216-032-5 REACH Reg. No 01-2119480150-50- xxxx	< 50	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1B / H317 Aquatic Chronic 3 / H412	harmful; Xn; R20/22 corrosive; C; R34 sensitising; Xi; R43 dangerous for the environment; R52-53



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Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Classification acc. to 67/548/EEC
4-tert-butylphenol	CAS No 98-54-4 EC No 202-679-0	< 25	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Repr. 2 / H361f Aquatic Chronic 1 / H410	irritant; Xi; R38-41 toxic for reproduction; Repr. Cat. 3; R62 dangerous for the environment; N: R51-53
Amines, C36-alkylenedi-	CAS No 68955-56-6 EC No 273-282-8	< 25	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	irritant; Xi; R38-41 dangerous for the environment; N; R50-53
2-piperazin-1-ylethylam- ine	CAS No 140-31-8 EC No 205-411-0 REACH Reg. No 01-2119471486-30- xxxx	< 25	Acute Tox. 4 / H302 Acute Tox. 3 / H311 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412	harmful; Xn; R21/22 corrosive; C; R34 sensitising; Xi; R43 dangerous for the environment; R52-53
2,4,6-tris(dimethylamino- methyl)phenol	CAS No 90-72-2 EC No 202-013-9 REACH Reg. No 01-2119560597-27- xxxx	< 25	Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1B / H317 Aquatic Chronic 3 / H412	corrosive; C; R34 dangerous for the environment; R52-53
Bis (dimethylamino- methyl) phenol	CAS No 71074-89-0 EC No 275-162-0	< 25	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Skin Corr. 1 / H314 Eye Dam. 1 / H318 STOT SE 3 / H335	

For full text of abbreviations: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

### **General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Seek medical treatment in case of complaints. Wash contaminated clothing before reuse. Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.



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### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

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

For specialist advice physicians should contact the anti poison control centre.

### SECTION 5: Firefighting measures

### 5.1 Extinguishing media

### Suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2) Unsuitable extinguishing media

water jet

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

### Hazardous combustion products

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

### 5.3 Advice for firefighters

Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

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

For non-emergency personnel

Remove persons to safety.

### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Warning and evacuating people in the neighbourhood.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

### Advices on how to contain a spill

Covering of drains.

### Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust. , kieselgur (diatomite), sand, universal binder).

### Appropriate containment techniques

Use of adsorbent materials.

### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.



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### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

#### Managing of associated risks

Handling and storage

Keep only in the original container in a cool, well-ventilated place.Keep container closed when not in use. **Incompatible substances or mixtures** 

Do not store together with materials with which contact should be avoided (see chapter 10). Protect from sunlight. Keep away from sources of ignition - No smoking.

### Consideration of other advice

Storage temperature of 0 °C and up to 50 °C.

### Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

Industrial uses.

### SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### National limit values

Occupational exposure limit values (Workplace Exposure Limits)

No information available.

Relevant DNELs/DMELs/PNECs and other threshold levels

### • relevant DNELs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshold level	Protection goal, route of expos- ure	Used in	Exposure time
m- phenylenebis(methyl- amine)	1477-55- 0	DNEL	0.2 mg/m <sup>3</sup>	human, inhalatory	worker (in- dustry)	chronic - local effects
m- phenylenebis(methyl- amine)	1477-55- 0	DNEL	0.33 mg/kg	human, dermal	worker (in- dustry)	chronic - systemic ef- fects
m- phenylenebis(methyl- amine)	1477-55- 0	DNEL	1.2 mg/m <sup>3</sup>	human, inhalatory	worker (in- dustry)	chronic - systemic ef- fects
4-tert-butylphenol	98-54-4	DNEL	0.071 mg/kg	human, dermal	worker (in- dustry)	chronic - systemic ef- fects
4-tert-butylphenol	98-54-4	DNEL	0.5 mg/m <sup>3</sup>	human, inhalatory	worker (in- dustry)	chronic - systemic ef- fects
Amines, C36-alkyle- nedi-	68955- 56-6	DNEL	17.6 mg/m <sup>3</sup>	human, inhalatory	worker (in- dustry)	acute - systemic ef- fects



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Amines, C36-alkyle- nedi-	68955- 56-6	DNEL	0.5 mg/kg	human, dermal	worker (in- dustry)	chronic - systemic ef- fects
Amines, C36-alkyle- nedi-	68955- 56-6	DNEL	3.5 mg/m <sup>3</sup>	human, inhalatory	worker (in- dustry)	chronic - systemic ef- fects
2-piperazin-1-ylethyl- amine	140-31-8	DNEL	20 mg/kg	human, dermal	worker (in- dustry)	acute - systemic ef- fects
2-piperazin-1-ylethyl- amine	140-31-8	DNEL	21.4 mg/m <sup>3</sup>	human, inhalatory	worker (in- dustry)	acute - systemic ef- fects
2-piperazin-1-ylethyl- amine	140-31-8	DNEL	3.3 mg/kg	human, dermal	worker (in- dustry)	chronic - systemic ef- fects
2-piperazin-1-ylethyl- amine	140-31-8	DNEL	3.6 mg/m <sup>3</sup>	human, inhalatory	worker (in- dustry)	chronic - systemic ef- fects

### • relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environ- mental com- partment	Exposure time
m- phenylenebis(methyl- amine)	1477-55- 0	PNEC	0.094 mg/l	aquatic organisms	freshwater	short-term (single in- stance)
m- phenylenebis(methyl- amine)	1477-55- 0	PNEC	0.0094 mg/l	aquatic organisms	marine water	short-term (single in- stance)
m- phenylenebis(methyl- amine)	1477-55- 0	PNEC	10 mg/l	aquatic organisms	sewage treat- ment plant (STP)	short-term (single in- stance)
m- phenylenebis(methyl- amine)	1477-55- 0	PNEC	0.43 mg/kg	aquatic organisms	freshwater sedi- ment	short-term (single in- stance)
m- phenylenebis(methyl- amine)	1477-55- 0	PNEC	0.043 mg/kg	aquatic organisms	marine sedi- ment	short-term (single in- stance)
m- phenylenebis(methyl- amine)	1477-55- 0	PNEC	0.045 mg/kg	terrestrial organisms	soil	short-term (single in- stance)
m- phenylenebis(methyl- amine)	1477-55- 0	PNEC	0.152 mg/l	aquatic organisms	water	intermittent release
4-tert-butylphenol	98-54-4	PNEC	0.01 mg/l	aquatic organisms	freshwater	short-term (single in- stance)
4-tert-butylphenol	98-54-4	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single in- stance)
4-tert-butylphenol	98-54-4	PNEC	1.5 mg/l	aquatic organisms	sewage treat- ment plant (STP)	short-term (single in- stance)
4-tert-butylphenol	98-54-4	PNEC	0.27 mg/kg	aquatic organisms	freshwater sedi- ment	short-term (single in- stance)
4-tert-butylphenol	98-54-4	PNEC	0.027 mg/kg	aquatic organisms	marine sedi- ment	short-term (single in- stance)
4-tert-butylphenol	98-54-4	PNEC	46.67 mg/kg	aquatic organisms	water	short-term (single in- stance)



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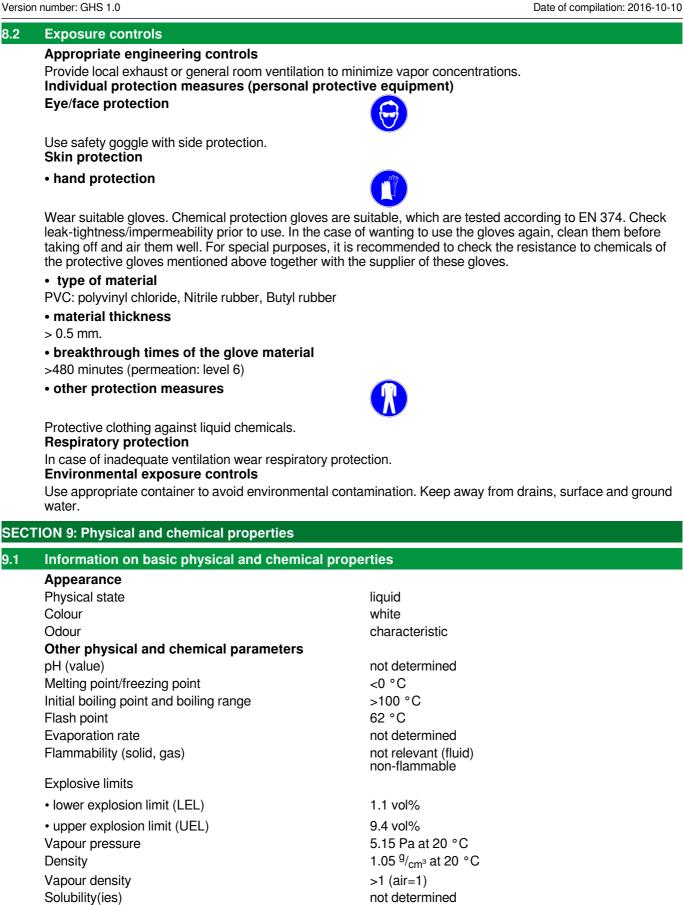
Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environ- mental com- partment	Exposure time
4-tert-butylphenol	98-54-4	PNEC	0.25 mg/kg	terrestrial organisms	soil	short-term (single i stance)
4-tert-butylphenol	98-54-4	PNEC	0.048 mg/l	aquatic organisms	water	intermittent releas
Amines, C36-alkyle- nedi-	68955- 56-6	PNEC	0.234 µg/l	aquatic organisms	freshwater	short-term (single stance)
Amines, C36-alkyle- nedi-	68955- 56-6	PNEC	0.0234 μg/l	aquatic organisms	marine water	short-term (single stance)
Amines, C36-alkyle- nedi-	68955- 56-6	PNEC	100 mg/l	aquatic organisms	sewage treat- ment plant (STP)	short-term (single stance)
Amines, C36-alkyle- nedi-	68955- 56-6	PNEC	2.04 mg/kg	aquatic organisms	freshwater sedi- ment	short-term (single stance)
Amines, C36-alkyle- nedi-	68955- 56-6	PNEC	0.204 mg/kg	aquatic organisms	marine sedi- ment	short-term (single stance)
Amines, C36-alkyle- nedi-	68955- 56-6	PNEC	3.33 mg/kg	aquatic organisms	water	short-term (single stance)
Amines, C36-alkyle- nedi-	68955- 56-6	PNEC	1.084 mg/kg	terrestrial organisms	soil	short-term (single stance)
Amines, C36-alkyle- nedi-	68955- 56-6	PNEC	0.44 μg/l	aquatic organisms	water	intermittent releas
2-piperazin-1-ylethyl- amine	140-31-8	PNEC	0.058 mg/l	aquatic organisms	freshwater	short-term (single stance)
2-piperazin-1-ylethyl- amine	140-31-8	PNEC	0.0058 mg/l	aquatic organisms	marine water	short-term (single stance)
2-piperazin-1-ylethyl- amine	140-31-8	PNEC	250 mg/l	aquatic organisms	sewage treat- ment plant (STP)	short-term (single stance)
2-piperazin-1-ylethyl- amine	140-31-8	PNEC	215 mg/kg	aquatic organisms	freshwater sedi- ment	short-term (single stance)
2-piperazin-1-ylethyl- amine	140-31-8	PNEC	21.5 mg/kg	aquatic organisms	marine sedi- ment	short-term (single stance)
2-piperazin-1-ylethyl- amine	140-31-8	PNEC	42.9 mg/kg	terrestrial organisms	soil	short-term (single stance)
2-piperazin-1-ylethyl- amine	140-31-8	PNEC	0.58 mg/l	aquatic organisms	water	intermittent releas
2,4,6-tris(dimethyl- aminomethyl)phenol	90-72-2	PNEC	0.084 mg/l	aquatic organisms	freshwater	short-term (single stance)
2,4,6-tris(dimethyl- aminomethyl)phenol	90-72-2	PNEC	0.0084 mg/l	aquatic organisms	marine water	short-term (single stance)
2,4,6-tris(dimethyl- aminomethyl)phenol	90-72-2	PNEC	0.2 mg/l	aquatic organisms	sewage treat- ment plant (STP)	short-term (single stance)
2,4,6-tris(dimethyl- aminomethyl)phenol	90-72-2	PNEC	0.84 mg/l	aquatic organisms	water	intermittent releas

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### **DRY FLEX® COOL - Component B**

partially soluble

>300 °C not determined

none none

this information is not available

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Water solubility Partition coefficient
n-octanol/water (log KOW) Auto-ignition temperature
Viscosity Explosive properties
Oxidising properties

### 9.2 Other information

Of no significance.

### SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Avoid extremely high (> 50 ° C) or low (<5 ° C) temperatures.

Physical stresses which might result in a hazardous situation and have to be avoided strong shocks

### 10.5 Incompatible materials

acids - bases - oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### • as a result of heating

carbon monoxide (CO) - carbon dioxide (CO2)

### SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Classification according to GHS (1272/2008/EC, CLP)

### Acute toxicity

Harmful if swallowed.

### • Acute toxicity estimate (ATE)

998.9 <sup>mg</sup>/<sub>kg</sub>

### · Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
m-phenylenebis(methylamine)	1477-55-0	oral	500 <sup>mg</sup> / <sub>kg</sub>
m-phenylenebis(methylamine)	1477-55-0	inhalation: vapour	11 <sup>mg</sup> / <sub>l</sub> /4h
m-phenylenebis(methylamine)	1477-55-0	inhalation: dust/mist	2.4 <sup>mg</sup> / <sub>l</sub> /4h
2-piperazin-1-ylethylamine	140-31-8	oral	500 <sup>mg</sup> / <sub>kg</sub>

oral



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Name of substance	CAS No	Exposure route	ATE
2-piperazin-1-ylethylamine	140-31-8	dermal	866 <sup>mg</sup> / <sub>kg</sub>
Bis (dimethylaminomethyl) phenol	71074-89-0	oral	500 <sup>mg</sup> / <sub>kg</sub>
Bis (dimethylaminomethyl) phenol	71074-89-0	dermal	1,100 <sup>mg</sup> / <sub>kg</sub>

### Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction. Summary of evaluation of the CMR properties

Suspected of damaging fertility.

Shall not be classified as germ cell mutagenic.

Shall not be classified as carcinogenic.

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### SECTION 12: Ecological information

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

### Aquatic toxicity (acute)

### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
m-phenylenebis(methyl- amine)	1477-55-0	LC50	87.6 <sup>mg</sup> / <sub>l</sub>	fish	96 h
m-phenylenebis(methyl- amine)	1477-55-0	EC50	15.2 <sup>mg</sup> / <sub>l</sub>	aquatic inverteb- rates	48 h
m-phenylenebis(methyl- amine)	1477-55-0	ErC50	32.1 <sup>mg</sup> / <sub>l</sub>	algae	48 h
4-tert-butylphenol	98-54-4	LC50	>1 <sup>mg</sup> / <sub>l</sub>	fish	96 h
4-tert-butylphenol	98-54-4	EC50	4.8 <sup>mg</sup> / <sub>l</sub>	aquatic inverteb- rates	48 h
4-tert-butylphenol	98-54-4	ErC50	14 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Amines, C36-alkylenedi-	68955-56-6	ErC50	15.7 <sup>µg</sup> / <sub>l</sub>	algae	72 h
2-piperazin-1-ylethylam- ine	140-31-8	LC50	2,190 <sup>mg</sup> / <sub>l</sub>	fish	96 h
2-piperazin-1-ylethylam- ine	140-31-8	EC50	58 <sup>mg</sup> / <sub>l</sub>	aquatic inverteb- rates	48 h
2-piperazin-1-ylethylam- ine	140-31-8	ErC50	>1,000 <sup>mg</sup> / <sub>l</sub>	algae	72 h
2,4,6-tris(dimethyl- aminomethyl)phenol	90-72-2	ErC50	84 <sup>mg</sup> / <sub>l</sub>	algae	72 h



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### Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment. Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
m-phenylenebis(methyl- amine)	1477-55-0	EC50	35.1 <sup>mg</sup> / <sub>l</sub>	aquatic inverteb- rates	24 h
m-phenylenebis(methyl- amine)	1477-55-0	LC50	6.77 <sup>mg</sup> / <sub>l</sub>	aquatic inverteb- rates	21 d
4-tert-butylphenol	98-54-4	EC50	8.1 <sup>mg</sup> / <sub>l</sub>	aquatic inverteb- rates	24 h
2-piperazin-1-ylethylam- ine	140-31-8	EC50	511 <sup>mg</sup> / <sub>l</sub>	microorganisms	2 h

### 12.2 Persistence and degradability

### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
m-phenylenebis(methyl- amine)	1477-55-0	carbon dioxide genera- tion	49 %	28 d
4-tert-butylphenol	98-54-4	oxygen depletion	60 %	28 d
Amines, C36-alkylenedi-	68955-56-6	oxygen depletion	0 %	28 d
Amines, C36-alkylenedi-	68955-56-6	DOC removal	163 %	43 d
2-piperazin-1-ylethylam- ine	140-31-8	oxygen depletion	0 %	28 d
2-piperazin-1-ylethylam- ine	140-31-8	carbon dioxide genera- tion	0 %	28 d
2-piperazin-1-ylethylam- ine	140-31-8	DOC removal	0 %	28 d
2,4,6-tris(dimethyl- aminomethyl)phenol	90-72-2	oxygen depletion	4 %	28 d

### 12.3 Bioaccumulative potential

### Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
m-phenylenebis(methyl- amine)	1477-55-0		0.18 (25 °C)	
4-tert-butylphenol	98-54-4	2,043	3 (pH value: 5.7, 23 °C)	
2-piperazin-1-ylethylam- ine	140-31-8		-1.48 (20 °C)	

### 12.4 Mobility in soil

Data are not available.



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### 12.5 Results of PBT and vPvB assessment

### 12.6 Other adverse effects

#### Data are not available. Endocrine disrupting potential

The mixture contains substance(s) with an endocrine disrupting potential.

Name of substance	CAS No	Combined cat- egory	Human health category	Wildlife category
4-tert-butylphenol	98-54-4	CAT2	CAT2	CAT2

Legend CAT2

Category 2 - at least some in vitro evidence of biological activity related to endocrine disruption

### SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets. Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

### Relevant provisions relating to waste

### List of wastes

08 04 09x

waste adhesives and sealants containing organic solvents or other dangerous substances

### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECT	ION 14: Transport information	
14.1	UN number	2735
14.2	UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S.
	Hazardous ingredients	2-piperazin-1-ylethylamine, M-phenylenebis(methyl- amine)
14.3	Transport hazard class(es)	
	Class	8 (corrosive substances)
14.4	Packing group	III (substance presenting low danger)
14.5	Environmental hazards	hazardous to the aquatic environment:
116	Chapiel propoutions for uppr	

**14.6** Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.



14.7

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Version number: GHS 1.0 Date of compilation: 2016-10-10 Transport in bulk according to Annex II of MARPOL and the IBC Code The cargo is not intended to be carried in bulk. Information for each of the UN Model Regulations • Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) **UN** number 2735 Proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. Class 8 Classification code C7 Packing group Ш 8 + "fish and tree" Danger label(s) ÷ Environmental hazards yes (hazardous to the aquatic environment) Special provisions (SP) 274 Excepted quantities (EQ) E1 Limited quantities (LQ) 5 L Transport category (TC) 3 Tunnel restriction code (TRC) Е Hazard identification No 80 **Emergency Action Code** 2X • International Maritime Dangerous Goods Code (IMDG) **UN number** 2735 Proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. Class 8 Marine pollutant yes (hazardous to the aquatic environment) Packing group Ш Danger label(s) 8 + "fish and tree" Special provisions (SP) 223, 274 Excepted quantities (EQ) E1 Limited quantities (LQ) 5 L EmS F-A, S-B Stowage category А Segregation group 18 - Alkalis International Civil Aviation Organization (ICAO-IATA/DGR) **UN** number 2735 Proper shipping name Amines, liquid, corrosive, n.o.s. Class 8 Environmental hazards yes (hazardous to the aquatic environment) Packing group Ш 8 Danger label(s)



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 Image: Special provisions (SP)
 A3, 274

 Excepted quantities (EQ)
 E1

 Limited quantities (LQ)
 1 L

### SECTION 15: Regulatory information

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

### Relevant provisions of the European Union (EU)

### • Restrictions according to REACH, Annex XVII

None of the ingredients are listed.

• List of substances subject to authorisation (REACH, Annex XIV)

None of the ingredients are listed.

### Seveso Directive

No	Dangerous substance/hazard categories	Qualifying quantity (to tion of lower and upp	onnes) for the applica- per-tier requirements	Notes
E1	environmental hazards (hazardous to the aquatic environ- ment, cat. 1)	100	200	56)

#### Notation

56) Hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

• Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

• Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

• Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

· Explosives precursors which are subject to restrictions

none of the ingredients are listed.

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



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### SECTION 16: Other information

Abbreviations and acronyms			
Abbr.	Descriptions of used abbreviations		
Acute Tox.	acute toxicity		
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)		
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)		
Aquatic Acute	hazardous to the aquatic environment - acute hazard		
Aquatic Chronic	hazardous to the aquatic environment - chronic hazard		
ATE	Acute Toxicity Estimate		
BCF	BioConcentration Factor		
BOD	Biochemical Oxygen Demand		
С	corrosive		
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures		
CMR	Carcinogenic, Mutagenic or toxic for Reproduction		
COD	chemical oxygen demand		
DGR	Dangerous Goods Regulations (see IATA/DGR)		
DMEL	Derived Minimal Effect Level		
DNEL	Derived No-Effect Level		
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)		
EINECS	European Inventory of Existing Commercial Chemical Substances		
ELINCS	European List of Notified Chemical Substances		
EmS	Emergency Schedule		
Eye Dam.	seriously damaging to the eye		
Eye Irrit.	irritant to the eye		
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations		
ΙΑΤΑ	International Air Transport Association		
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)		
ICAO	International Civil Aviation Organization		
IMDG	International Maritime Dangerous Goods Code		
log KOW	n-octanol/water		
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")		
N	dangerous for the environment		
NLP	No-Longer Polymer		
PBT	Persistent, Bioaccumulative and Toxic		
PNEC	Predicted No-Effect Concentration		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals		
Repr.	reproductive toxicity		



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Abbr.	Descriptions of used abbreviations
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concern- ing the International carriage of Dangerous goods by Rail)
Skin Corr.	corrosive to skin
Skin Irrit.	irritant to skin
Skin Sens.	skin sensitisation
STOT SE	specific target organ toxicity - single exposure
vPvB	very Persistent and very Bioaccumulative
Xi	irritant
Xn	harmful

### Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU Regulation (EC) No. 1272/2008 (CLP, EU GHS) -
- -

### **Classification procedure**

Physical and chemical properties: The classification is based on tested mixture. Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H302	harmful if swallowed
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
H318	causes serious eye damage
H332	harmful if inhaled
H335	may cause respiratory irritation
H361f	suspected of damaging fertility
H400	very toxic to aquatic life
H410	very toxic to aquatic life with long lasting effects
H412	harmful to aquatic life with long lasting effects
R20/22	harmful by inhalation and if swallowed
R21/22	harmful in contact with skin and if swallowed
R34	causes burns
R38	irritating to skin
R41	risk of serious damage to eyes
R43	may cause sensitisation by skin contact
R50/53	very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment



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Code	Text
R51/53	toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	possible risk of impaired fertility

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.