

Material Safety Data Sheet

According to 91/155 EEC

Printing date 04.04.2007

Reviewed on 21.03.2007

1 Identification of the substance/preparation and of the company/undertaking

Product details

Trade name **Superflex 40 Komp. A**

Safety data sheet no.: 49PD10492-a/8

Application of the substance / the preparation Epoxy coating

Manufacturer/Supplier:

maxit France s.a.s
4 rue de Mulhouse
Boîte Postale 27
F-68180 Horbourg-Wihr
Tel.: ++33(0)3 89 20 10 80
FAX: ++33(0)3 89 20 10 92

Information in case of emergency:

maxit France s.a.s
Tel.: ++33(0)3 89 20 10 80

2 Composition/information on ingredients

Chemical characterization

Description: Reaction resin based on bisphenol-A and F

Dangerous components:

25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)  Xi,  N; R 36/38-43-51/53	25 - 50%
28064-14-4	Bisphenole-F-Epichlorhydrine-Resin MG ≤ 700  Xi,  N; R 36/38-43-51/53	5 - 10%
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs  Xi,  N; R 36/38-43-51/53	5 - 10%

Additional information For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

Hazard description:



Xi Irritant
N Dangerous for the environment

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitisation by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Contains epoxy constituents. See information supplied by the manufacturer.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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4 First aid measures**General information**

Immediately remove any clothing soiled by the product.

Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and present this data sheet.

After inhalation

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor. Rinse liquid should be tempered (20-30°C).

After swallowing

Rinse out mouth with water. Do not induce vomiting. Seek medical attention and present this data sheet.

5 Fire fighting measures**Suitable extinguishing agents**CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents** Water with full jet**Special hazards caused by the substance, its products of combustion or resulting gases:**

During heating or in case of fire poisonous gases are produced.

Carbon monoxide (CO)

Nitrogen oxides (NO_x)**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures**Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Measures for environmental protection:

Inform respective authorities in case of seepage into water course or sewage system.

The product must not get into watercourses or into the soil.

Suppress gases/fumes/haze with water spray.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: See Section 13 for disposal information.

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7 Handling and storage**Handling****Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed.

Information about fire - and explosion protection: No special measures required.**Storage****Requirements to be met by storerooms and receptacles:** Store in a cool location.**Information about storage in one common storage facility:**

Do not store together with acids.

Store away from oxidizing agents.

Store away from foodstuffs.

Further information about storage conditions:

Protect from frost.

Protect from heat and direct sunlight.

Protect from humidity and water.

Recommended storage temperature: 5-30°C.**8 Exposure controls and personal protection****Additional information about design of technical facilities:** No further data; see item 7.**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

The applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

Personal protective equipment:**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Use a moisturising skin cream after processing the product.

Respiratory protection:

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Short term filter device:

Filter AX.

Protection of hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles

Body protection: Protective work clothing.

9 Physical and chemical properties:**General Information**

Form:	Fluid
Colour:	According to product specification
Odour:	Weak, characteristic

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: > 200°C (> 392°F) (DIN)

Flash point: > 100°C (> 212°F) (DIN ISO 2592)

Ignition temperature: 230°C (446°F) (DIN 51794)

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Vapour pressure: Not determined.

Density at 20°C (68°F): 1,53 g/cm³ (DIN 51757)

Bulk density: Not applicable.

Solubility in / Miscibility with

Water: Not miscible or difficult to mix

pH-value: Not determined

Viscosity:

dynamic: Not determined.

kinematic: Not determined.

Additional information: None.

10 Stability and reactivity**Thermal decomposition / Conditions to be avoided:**

No decomposition if used according to specifications.

To avoid thermal decomposition do not overheat.

Dangerous reactions:

Exothermic polymerization.

Reacts with acids, alkalis and oxidizing agents

Dangerous decomposition products: No dangerous decomposition products known.

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11 Toxicological information**Acute toxicity:**

LD/LC50 values relevant for classification:

Components	Type	Value	Species
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)			
Oral	LD50	11400 mg/kg (rat)	
Dermal	LD50	> 2000 mg/kg (rabbit)	
28064-14-4 Bisphenole-F-Epichlorhydrine-Resin MG ≤ 700			
Oral	LD50	23800 mg/kg (rat)	
Dermal	LD50	> 2000 mg/kg (rabbit)	
68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs			
Oral	LD50	> 5000 mg/kg (rat)	

Primary irritant effect:**on the skin:** Irritant to skin and mucous membranes.**on the eye:** Irritating effect.**Sensitization:** Sensitization possible through skin contact.**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological information:**Information about elimination (persistence and degradability):****Other information:** The product is difficultly biodegradable.**Behaviour in environmental systems:****Mobility and bioaccumulation potential:**

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	
EBAB (dynamic)	3,5 - 4 log Pow (Bioakkumulation)

Ecotoxicological effects:**Aquatic toxicity:**

Type of test Effective concentration Method Assessment	
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	
EC50/24h	1,1 - 3,6 mg/l (Daphnia magna (großer Wasserfloh))
EC50/96h	220 mg/l (Selenastrum capricornutum (Grünalge))
LC50/96h	1,5 - 7,7 mg/l (Oncorhynchus mykiss (rainbow trout))
68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs	
EC50/48h	1-10 mg/l (Daphnia magna (großer Wasserfloh))
LC50/96h	1-10 mg/l (fish)

Remark: The product contains substances which are toxic to fishes and bacteria.**General notes:**

Also poisonous for fish and plankton in water bodies.

Danger to drinking water if even small quantities leak into the ground.

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13 Disposal considerations

Product:
Recommendation

Curing of the product by mixing with the curing component. Cured epoxy resin products are waste that requires no particular supervision and can as a rule be disposed of as commercial waste that is similar to household rubbish.

European waste catalogue

07 02 08 other still bottoms and reaction residues

Uncleaned packaging:
Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class: 9 (M6) Miscellaneous dangerous substances and articles.

Danger code (Kemler): 90

UN-Number: 3082

Packaging group: III

Hazard label 9

Description of goods: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin)

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: 9

UN Number: 3082

Label 9

Packaging group: III

EMS Number: F-A,S-F

Marine pollutant: No

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 9

UN/ID Number: 3082

Label 9

Packaging group: III

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Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Epoxy Resin)**15 Regulatory information****Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
Observe the general safety regulations when handling chemicals.

Code letter and hazard designation of product:

Xi Irritant

N Dangerous for the environment

Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

Bisphenole-F-Epichlorhydrine-Resin $MG \leq 700$
oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Risk phrases:

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

23 Do not breathe fumes.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of water.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Special labelling of certain preparations:

Contains epoxy constituents. See information supplied by the manufacturer.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Department issuing MSDS: Product safety department**Contact:** Mr Gilles Weber, Tel.: ++33(0)3 89 20 10 93*** Data compared to the previous version altered.**

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1 Identification of the substance/preparation and of the company/undertaking

Product details

Trade name **Superflex 40, Komp. B**

Safety data sheet no.: 49PD10492-b/13

Application of the substance / the preparation Hardening agent/ Curing agent

Manufacturer/Supplier:

maxit France s.a.s
4 rue de Mulhouse
Boîte Postale 27
F-68180 Horbourg-Wihr
Tel.: ++33(0)3 89 20 10 80
FAX: ++33(0)3 89 20 10 92

Information in case of emergency:

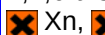
maxit France s.a.s
Tel.: ++33(0)3 89 20 10 80

2 Composition/information on ingredients

Chemical characterization

Description: Reaction resin curer based on amines and polyamines.

Dangerous components:

25154-52-3	nonylphenol  C,  Xn,  N; R 22-34-62-50/53-63	10 - 25%
25620-58-0	Trimethylhexan-1,6-diamin  C,  Xn; R 22-34-43-52/53	5 - 10%
61788-46-3	Kokosfettamin  C,  Xn,  N; R 22-35-50	5 - 10%
98-54-4	4-tert-butylphenol  Xi,  N; R 36/37/38-43-51/53	2 - 5%
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol  Xn,  Xi; R 22-36/38	2 - 5%
108-10-1	4-methylpentan-2-one  Xn,  Xi,  F; R 11-20-36/37-66	2 - 5%
1477-55-0	m-Xylylendiamine  C,  Xn; R 20/22-34-43-52/53	1 - 2%

Additional information For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

Hazard description:



C Corrosive
N Dangerous for the environment

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 22 Harmful if swallowed.

R 34 Causes burns.

R 43 May cause sensitisation by skin contact.

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R 62 Possible risk of impaired fertility.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 63 Possible risk of harm to the unborn child.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures

General information

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and present this data sheet.

After inhalation

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor. Rinse liquid should be tempered (20-30°C).

After swallowing Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Fire fighting measures

Suitable extinguishing agents

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents Water with full jet

Special hazards caused by the substance, its products of combustion or resulting gases:

Formation of toxic gases is possible during heating or in case of fire.

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Protective equipment: Wear self-contained respiratory protective device.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

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Measures for environmental protection:

The product must not get into lakes, rivers or canals, the sewage system or into the soil. Dam up or trap any escaping fluid immediately.

Inform respective authorities in case of seepage into water course or sewage system.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage**Handling****Information for safe handling:**

Use only in well ventilated areas.

Keep receptacles tightly sealed.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

Storage**Requirements to be met by storerooms and receptacles:**

Store only in unopened original receptacles.

Store in a cool location.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

Do not store together with acids.

Store away from oxidizing agents.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Protect from frost.

Recommended storage temperature: 5-30°C.

8 Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

CAS No.	Designation of material	%	Type	Value	Unit
108-10-1	4-methylpentan-2-one				
IOELV ()	Short-term value: 208 mg/m ³ , 50 ppm Long-term value: 83 mg/m ³ , 20 ppm				

Additional information:

Te applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

Personal protective equipment:**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

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Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Short term filter device:

Filter AX.

Protection of hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles

Body protection: Protective work clothing.

9 Physical and chemical properties:

General Information

Form:	Fluid
Colour:	According to product specification
Odour:	Amine-like

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 100°C (> 212°F) (DIN)

Flash point:	112°C (234°F) (DIN ISO 2592)
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Self-igniting:	Product is not selfigniting.
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Danger of explosion:	Product does not present an explosion hazard.
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Explosion limits:

Lower:	n.b. Vol % (DIN 51649)
Upper:	n.b. Vol % (DIN 51649)

Vapour pressure at 20°C (68°F):	0,1 hPa (0 mm Hg) (DIN 51640)
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Density at 20°C (68°F):	0,97 g/cm ³ (DIN 51757)
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Bulk density:	Not applicable.
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Solubility in / Miscibility with

Water:	Not miscible or difficult to mix
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pH-value (500 g/l) at 20°C (68°F):	11,0 (DIN 19261)
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Viscosity:
dynamic at 20°C (68°F): 2 mPas (DIN 53019)
kinematic: Not determined.

Solvent separation test: Not determined

Additional information: None.

10 Stability and reactivity**Thermal decomposition / Conditions to be avoided:**

No decomposition if used according to specifications.

Dangerous reactions: Reacts with acids, alkalis and oxidizing agents**Dangerous decomposition products:** No dangerous decomposition products known.**11 Toxicological information****Acute toxicity:****LD/LC50 values relevant for classification:**

Components	Type	Value	Species
25154-52-3 nonylphenol			
Oral	LD50	200-2000 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rabbit)	
25620-58-0 Trimethylhexan-1,6-diamin			
Oral	LD50	910 mg/kg (rat)	
98-54-4 4-tert-butylphenol			
Oral	LD50	2951 mg/kg (rat)	
Dermal	LD50	2288 mg/kg (rbt)	
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol			
Oral	LD50	1670 mg/kg (rat)	
Dermal	LD50	1400 mg/kg (rabbit)	
108-10-1 4-methylpentan-2-one			
Oral	LD50	2100 mg/kg (rat)	
Dermal	LD50	16000 mg/kg (rabbit)	
Inhalative	LC50/4 h	8,3-16,6 mg/l (rat)	
1477-55-0 m-Xylendiamine			
Oral	LD50	1040 mg/kg (rat)	
Dermal	LD50	2000 mg/kg (rabbit)	
Inhalative	LC50/4 h	2,4 mg/l (rat)	

Primary irritant effect:**on the skin:** Caustic effect on skin and mucous membranes.**on the eye:** Strong caustic effect.**Sensitization:** Sensitization possible through skin contact.**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

Corrosive

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Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information:

Information about elimination (persistence and degradability):

Other information: The product is difficultly biodegradable.

Behaviour in environmental systems:

Mobility and bioaccumulation potential:

25154-52-3 nonylphenol

EBAB 3,28 log Pow (-)

Ecotoxicological effects:

Aquatic toxicity:

Type of test Effective concentration Method Assessment

25154-52-3 nonylphenol

EC 10/18h	>16 mg/l (pseudomonas putida)
EC50/48h	< 1,0 mg/l (Daphnia magna (großer Wasserfloh))
EC50/72h	1,3 mg/l (scenedesmus subspicatus (Alge))
LC0/48h	0,4 mg/l (Leuciscus idus (Goldorfe))
LC50/48h	0,56 mg/l (Leuciscus idus (Goldorfe))
LC50/96h	< 1,0 mg/l (fish)
NOEC (14d)	0,25 mg/l (Brachydanio rerio (Zebrabärbling))
NOEC (21d)	0,1 mg/l (Daphnia magna (großer Wasserfloh))

25620-58-0 Trimethylhexan-1,6-diamin

EC 10/16h	72 mg/l (pseudomonas putida)
EC50/24h	31,5 mg/l (Daphnia magna (großer Wasserfloh))
EC50/72h	29,5 mg/l (scenedesmus subspicatus (Alge))
LC0/48h	150 mg/l (Leuciscus idus (Goldorfe))
LC50/48h	174 mg/l (Leuciscus idus (Goldorfe))

1477-55-0 m-Xylylendiamine

EC50/48h	16 mg/l (Daphnia magna (großer Wasserfloh))
LC50/96h	>100 mg/l (Oncorhynchus mykiss (rainbow trout))

Remark:

The product contains substances which cause a local pH change and thus have a detrimental effect on fish and bacteria.

The product contains substances which are toxic to fishes and bacteria.

Remark: The product causes a significant pH change. Neutralise before introduction.

General notes:

Also poisonous for fish and plankton in water bodies.

Danger to drinking water if even extremely small quantities leak into the ground.

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13 Disposal considerations

Product:

Recommendation

After mixing with the resin component pour a partial amount back into the curing agent barrel, stir well and pour the mass back once more. Cured epoxy resin products are waste that requires no particular supervision and can as a rule be disposed of as commercial waste that is similar to household rubbish.

European waste catalogue

07 02 08 other still bottoms and reaction residues

Uncleaned packaging:

Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)



ADR/RID-GGVS/E Class: 8 (C7) Corrosive substances.

Danger code (Kemler): 80

UN-Number: 2735

Packaging group: III

Hazard label: 8

Description of goods: 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (TRIMETHYLHEXAMETHYLENEDIAMINES, nonylphenol)

Maritime transport IMDG/GGVSea:



IMDG/GGVSea Class: 8

UN Number: 2735

Label: 8

Packaging group: III

EMS Number: F-A,S-B

Marine pollutant: Yes

Proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (TRIMETHYLHEXAMETHYLENEDIAMINES, nonylphenol)

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 8

UN/ID Number: 2735

Label: 8

Packaging group: III

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Material Safety Data Sheet

According to 91/155 EEC

Printing date 04.04.2007

Reviewed on 21.03.2007

Trade name Superflex 40, Komp. B

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Proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S.
(TRIMETHYLHEXAMETHYLENEDIAMINES, nonylphenol)

15 Regulatory information

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
Observe the general safety regulations when handling chemicals.

Code letter and hazard designation of product:



C Corrosive
N Dangerous for the environment

Hazard-determining components of labelling:

Trimethylhexan-1,6-diamin
4-tert-butylphenol
m-Xylylendiamine
nonylphenol
Kokosfettamin

Risk phrases:

- 22 Harmful if swallowed.
- 34 Causes burns.
- 43 May cause sensitisation by skin contact.
- 62 Possible risk of impaired fertility.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 63 Possible risk of harm to the unborn child.

Safety phrases:

- 23 Do not breathe fumes.
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, wash immediately with plenty of water.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National regulations

Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

- 11 Highly flammable.
- 20 Harmful by inhalation.
- 20/22 Harmful by inhalation and if swallowed.
- 22 Harmful if swallowed.

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Material Safety Data Sheet

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Trade name Superflex 40, Komp. B

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- 34 Causes burns.
- 35 Causes severe burns.
- 36/37 Irritating to eyes and respiratory system.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 36/38 Irritating to eyes and skin.
- 43 May cause sensitisation by skin contact.
- 50 Very toxic to aquatic organisms.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 62 Possible risk of impaired fertility.
- 63 Possible risk of harm to the unborn child.
- 66 Repeated exposure may cause skin dryness or cracking.

Department issuing MSDS: Product safety department

Contact: Mr Gilles Weber, Tel.: ++33(0)3 89 20 10 93

*** Data compared to the previous version altered.**

EU