

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 **Plastikol Multipox S, Komp. A**

Safety data sheet no.: 49PD10453-a/17

Application of the substance / the preparation Epoxy resin adhesive

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

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	10 - 20%
3101-60-8	4-tert.-Butylphenylglycidylether  Xi; R 36/38-43-52/53	5 - 10%

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

3 Hazards identification

Hazard description:



Xi Irritant

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 52/53 Harmful 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.

If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Rinse liquid should be tempered (20-30°C).

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

Information for doctor

Treatment If swallowed, gastric irrigation

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:

In case of fire, the following can be released:

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.

Measures for environmental protection:

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

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 the material collected according to regulations.

Additional information: See Section 13 for disposal information.

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

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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

Store in a cool location.

No special requirements.

Information about storage in one common storage facility: Not required.**Further information about storage conditions:** Protect from heat and direct sunlight.**8 Exposure controls and personal protection****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:**

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 required.**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

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.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Butyl rubber, BR

Eye protection: Tightly sealed goggles**Body protection:** Protective work clothing.

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Trade name Plastikol Multipox S, Komp. A

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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:	250°C (482°F) (DIN)

Flash point:	101°C (214°F) (DIN ISO 2592)
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Ignition temperature:	300°C (572°F) (DIN 51794)
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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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Vapour pressure at 20°C (68°F):	< 0,2 mbar (DIN 51640)
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Density at 20°C (68°F):	1,7 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:	Not applicable.
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Viscosity:

dynamic:	Not determined.
kinematic:	Not determined.

Solvent separation test:	Not determined
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Solvent content:

Organic solvents:	<0,1 %
Water:	0,0 %
Solids content:	74,9 %

Additional information:	None.
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10 Stability and reactivity**Dangerous reactions:** No dangerous reactions known**Dangerous decomposition products:** No dangerous decomposition products known.**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)	
13463-67-7 titanium dioxide			
Oral	LD50	>10000 mg/kg (rat)	

Primary irritant effect:**on the skin:** Irritant to skin and mucous membranes.

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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

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

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)**

Bioakkumulation 3,5 - 4 log Pow (-)

Ecotoxicological effects:**Acquatic 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))

Remark: Harmful to fish**General notes:**

Do not allow product to reach ground water, water course or sewage system.

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

Harmful to aquatic organisms

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.

Waste disposal key:

The classification in a waste code according to the European waste catalogue (EWC) is to be made in accordance with the regional responsible for waste disposal

Uncleaned packaging:**Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

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

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Trade name Plastikol Multipox S, Komp. A

Disposal must be made according to official regulations.

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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

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.

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Trade name Plastikol Multipox S, Komp. A

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Code letter and hazard designation of product:

Xi Irritant

Hazard-determining components of labelling:

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

4-tert.-Butylphenylglycidylether

Risk phrases:

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

24 Avoid contact with skin.

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 ... (to be specified by the manufacturer).

37/39 Wear suitable gloves and eye/face protection.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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.

52/53 Harmful 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 **Plastikol Multipox S Komp. B**

Safety data sheet no.: 49PD10453-b/3

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: Modified polyamine

Dangerous components:

112-24-3	3,6-diazaoctanethylenediamin	 C,  Xi; R 21-34-43-52/53	25 - 50%
111-40-0	2,2'-iminodiethylamine	 C,  Xi; R 21/22-34-43	10 - 20%

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

3 Hazards identification**Hazard description:**

C Corrosive

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 21 Harmful in contact with skin.

R 34 Causes burns.

R 43 May cause sensitisation by skin contact.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

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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.

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.

Information for doctor

Treatment If swallowed, gastric irrigation with added, activated carbon.

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:

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Ammonia (NH₃)

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.

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.

Measures for cleaning/collecting:

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

Dispose of the material collected according to regulations.

Ensure adequate ventilation.

Additional information: See Section 13 for disposal information.

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Trade name Plastikol Multipox S Komp. B

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

Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Information about fire - and explosion protection: No special measures required.**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.

Store away from oxidizing agents.

Do not store together with acids.

Further information about storage conditions:

Protect from heat and direct sunlight.

Protect from humidity and water.

Store in cool, dry conditions in well sealed receptacles.

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:

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.

Use a moisturising skin cream after processing the product.

Do not eat or drink while working.

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

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Trade name Plastikol Multipox S Komp. B

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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:	Yellow
Odour:	Amine-like

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	250°C (482°F) (DIN)

Flash point:	> 100°C (> 212°F) (DIN ISO 2592)
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Ignition temperature:	>350°C (>662°F) (DIN 51794)
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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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Vapour pressure at 20°C (68°F):	<0,5 hPa (<0 mm Hg) (DIN 51640)
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Density at 20°C (68°F):	0,98 g/cm ³ (DIN 51757)
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Bulk density:	Not applicable.
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Solubility in / Miscibility with

Water:	Partly miscible
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pH-value:	Not applicable.
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Viscosity:

dynamic at 20°C (68°F):	250 mPas (DIN 53019)
kinematic:	Not determined.

Solvent separation test:	Not applicable.
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Solvent content:

Organic solvents:	0,0 %
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Additional information:	None.
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10 Stability and reactivity**Thermal decomposition / Conditions to be avoided:**

No decomposition if used according to specifications.

Stable until boiling point

Dangerous reactions: Reacts with strong acids and oxidizing agents**Dangerous decomposition products:** Ammonia

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Trade name Plastikol Multipox S Komp. B

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11 Toxicological information**Acute toxicity:****LD/LC50 values relevant for classification:**

Components	Type	Value	Species
111-40-0 2,2'-iminodiethylamine			
Oral	LD50	1080 mg/kg (rat)	
Dermal	LD50	1090 mg/kg (rbt)	

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

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.**Ecotoxicological effects:****Remark:** Harmful to fish**General notes:**

Do not allow product to reach ground water, water course or sewage system.

Harmful to aquatic organisms

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

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.

Disposal must be made according to official regulations.

Recommended cleaning agent: Water, if necessary together with cleansing agents.

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Trade name Plastikol Multipox S Komp. B

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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: II

Hazard label 8

Description of goods: 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (TRIETHYLENETETRAMINE, DIETHYLENETRIAMINE)

Maritime transport IMDG/GGVSea:



IMDG/GGVSea Class: 8

UN Number: 2735

Label 8

Packaging group: II

EMS Number: F-A,S-B

Marine pollutant: No

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (TRIETHYLENETETRAMINE, DIETHYLENETRIAMINE)

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 8

UN/ID Number: 2735

Label 8

Packaging group: II

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (TRIETHYLENETETRAMINE, DIETHYLENETRIAMINE)

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

Hazard-determining components of labelling:

3,6-diazaoctanethylenediamin

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2,2'-iminodiethylamine

Risk phrases:

- 21 Harmful in contact with skin.
- 34 Causes burns.
- 43 May cause sensitisation by skin contact.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

- 2 Keep out of the reach of children.
- 23 Do not breathe fumes.
- 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.
- 60 This material and its container must be disposed of as hazardous waste.

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

- 21 Harmful in contact with skin.
- 21/22 Harmful in contact with skin and if swallowed.
- 34 Causes burns.
- 43 May cause sensitisation by skin contact.
- 52/53 Harmful 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.**