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

1.1 Identification of the substance

or preparation: GP 12 A / Resin

1.2 Use of the substance/preparation: Epoxy constituents

1.3 Company/undertaking identification

 Company name:
 Gößl + Pfaff GmbH

 Street:
 Münchener Str. 13

 Place:
 85123 Karlskron/Brautlach

 Telephone:
 +49 (0) 8450 / 932-0

 Fax.:
 +49 (0) 8450 / 932-13

Contact person: Management: Mr. Gößl, Mr. Pfaff

E-Mail: info@goessl-pfaff.de
Internet: www.goessl-pfaff.de
Responsible Department: Management

1.4 Emergency telephone

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463

2. Hazards identification

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2

Eye irritation, Category 2

Skin sensitisation, Category 1

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word: Warning

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing mist or vapours.

P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P391 Collect spillage.

Hazardous components which must be listed on the label:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

1,4-bis(2,3-epoxypropoxy)butane

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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

3.2 Mixtures

Hazardous components

| Chemical name | CAS-No. EG-No. INDEX-No. Registration no. | Classification (REGULATION (EC) No 1272/2008) | Concentration (% w/w) |
|--|--|--|--------------------------|
| 2,2'-[(1- methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane | 1675-54-3 216-823-5 603-073-00-2 01-2119456619-26 | Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1; H317 Aquatic Chronic 2; H411 | >= 70 - < 90 |
| 1,4-bis(2,3- epoxypropoxy)butane | 2425-79-8 219-371-7 603-072-00-7 01-2119494060-45 | Acute Tox.4; H302 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Chronic 3; H412 | >= 3 - < 10 |

For explanation of abbreviations see section 16.

4. First aid measures

4.1 Description of first aid measures

General advice

Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Get medical attention if symptoms occur.

If inhaled

If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact

If skin irritation persists, call a physician.

If on skin, rinse well with water.

If on clothes, remove clothes.

In case of eye contact

Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed

Keep respiratory tract clear.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.



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5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting:

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products:

Carbon oxides

Halogenated compounds

No data is available on the product itself.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods:

No data is available on the product itself.

Further information:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions:

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13.,

See Section 1 for emergency contact information.,

For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

Do not breathe vapours or spray mist.

Avoid exposure - obtain special instructions before use.



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Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Dispose of rinse water in accordance with local and national regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Hygiene measures:

When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Keep in properly labelled containers.

Advice on common storage:

For incompatible materials please refer to Section 10 of this SDS.

Recommended storage temperature: 2-40°C

Further information on storage stability: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s): No data available

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|-----------|-----------------|--|-------------------------|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxy- | Workers | Dermal | Systemic effects, | 8,33 mg/kg bw/day |
| methylene)]bisoxirane | | | Short-term exposure | |
| | Workers | Inhalation | Systemic effects, Short-term exposure | 12,25 mg/m ³ |
| | Workers | Dermal | Systemic effects, | 8,33 mg/kg bw/day |
| | | | Long-term exposure | |
| | Workers | Inhalation | Systemic effects, | 12,25 mg/m ³ |
| | | | Long-term exposure | - |
| | Consumers | Dermal | Systemic effects, | 3,571 mg/kg bw/day |
| | | | Short-term exposure | |
| | Consumers | Oral | Systemic effects, | 0,75 mg/kg bw/day |
| | | | Short-term exposure | |
| | Consumers | Dermal | Systemic effects, | 3,571 mg/kg bw/day |
| | | | Long-term exposure | |
| | Consumers | Oral | Systemic effects, | 0,75 mg/kg bw/day |
| | | | Long-term exposure | |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|--|---------------------------|-------------|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]-bisoxirane | Fresh water | 0,006 mg/l |
| Remarks: Assessment Factors | | |
| | Marine water | 0,0006 mg/l |

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| Assessment Factors | | |
|--------------------|---------------------------|--------------|
| | Freshwater - intermittent | 0,018 mg/l |
| Assessment Factors | | |
| | Fresh water sediment | 0,996 mg/kg |
| Equilibrium method | | |
| | Marine sediment | 0,0996 mg/kg |
| Equilibrium method | | |
| | Soil | 0,196 mg/kg |
| Equilibrium method | | |
| | Sewage treatment plant | 10 mg/l |
| Assessment Factors | | |
| | Secondary poisoning | 11 mg/kg |

8.2 Exposure controls

Personal protective equipment

Eye protection:

Eye wash bottle with pure water Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing problems.

Hand protection:

Material: butyl-rubber Break through time: > 8 h Material: Nitrile rubber

Break through time: 10–480 min Material: Neoprene gloves Break through time: 10–480 min

Remarks:

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection

Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection

No personal respiratory protective equipment normally required.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: liquid
Colour: light yellow
Odour: slight

Odour Threshold: No data is available on the product itself.

pH: 6 (20 °C)

Concentration: 500 g/l

Freezing point:No data is available on the product itself.
Melting point:
No data is available on the product itself.

Boiling point: $> 200 \, ^{\circ}\text{C}$ Flash point: $> 200 \, ^{\circ}\text{C}$

Method: Pensky-Martens closed cup

204 °C

Method: Cleveland open cup



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Evaporation rate:

Flammability (solid, gas):

Burning rate:

No data is available on the product itself.

No data is available on the product itself.

No data is available on the product itself.

Upper explosion limit /

No data is available on the product itself.

Upper flammability limit

Lower explosion limit / No data is available on the product itself.

Lower flammability limit

Vapour pressure: < 0,002 hPa (20 °C)

Relative vapour density:No data is available on the product itself.
Relative density:
No data is available on the product itself.

Density: 1,17 g/cm³ (25 °C)

Solubility(ies)

Water solubility: practically insoluble (20 °C)

Solubility in other solvents:

Partition coefficient: n- octanol/water:

Auto-ignition temperature:

No data is available on the product itself.

No data is available on the product itself.

Decomposition temperature: > 200 °C

Viscosity

Viscosity, dynamic: 25.000 – 45.000 mPa.s (25 °C)

Explosive properties:No data is available on the product itself. **Oxidizing properties:**No data is available on the product itself.

9.2 Other information No data available

10. Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid: None known.

10.5 Incompatible materials

Materials to avoid: None known.

10.6 Hazardous decomposition products

Hazardous decomposition products:

Carbon dioxide Carbon monoxide Halogenated compounds



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11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity - Product:

Acute toxicity estimate: > 2 000 mg/kg

Method: Calculation method

Acute inhalation toxicity – Product: Acute toxicity estimate : > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method Acute dermal toxicity – Product: Acute toxicity estimate : > 2 000 mg/kg

Method: Calculation method

Acute toxicity (other routes of administration):

No data available

Skin corrosion/irritation

Product:

Species: Rabbit Result: Skin irritation

Serious eye damage/eye irritation

Product:

Species: Not Assigned

Method: OECD Test Guideline 437

Result: Eye irritation

Respiratory or skin sensitisation

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Exposure routes: Skin Species: Mouse

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429 Result: Causes sensitisation. 1,4-bis(2,3-epoxypropoxy)butane:

Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

Assessment: No data available

Germ cell mutagenicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Genotoxicity in vitro:

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

Concentration: 0 - 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive



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1,4-bis(2,3-epoxypropoxy)butane:

Genotoxicity in vitro:

Concentration: 10 - 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive

Remarks: Not classified due to data which are conclusive although insufficient for classification.

Concentration: 1 - 100 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: positive

Remarks: Not classified due to data which are conclusive although insufficient for classification.

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Genotoxicity in vivo : Cell type: Germ Application Route: Oral

Method: OECD Test Guideline 478

Result: negative

Cell type: Somatic Application

Route: Oral

Dose: 0 - 5000 mg/kg Method: OPPTS 870.5395

Result: negative

1,4-bis(2,3-epoxypropoxy)butane:

Genotoxicity in vivo:

Test Type: In vivo micronucleus test

Test species: Mouse Cell type: Somatic Application Route: Oral Exposure time: 4 d Dose: 187.5 - 750 mg/kg

Method: OECD Test Guideline 474

Result: negative

Test Type: unscheduled DNA synthesis assay

Test species: Rat Cell type: Liver cells Application Route: Oral

Method: OECD Test Guideline 486

Result: negative

Components:

1,4-bis(2,3-epoxypropoxy)butane: Germ cell mutagenicity- Assessment:

Weight of evidence does not support classification as a germ cell mutagen.

Germ cell mutagenicity- Assessment:

No data available

Carcinogenicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rat, male and female Application Route: Oral Exposure time: 24 month(s)

Dose: 15 mg/kg



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Frequency of Treatment: 7 days/week Method: OECD Test Guideline 453

Result: negative Species: Mouse, male Application Route: Dermal Exposure time: 24 month(s)

Dose: 0.1 mg/kg

Frequency of Treatment: 3 days/week Method: OECD Test Guideline 453

Result: negative Species: Rat, female Application Route: Dermal Exposure time: 24 month(s)

Dose: 1 mg/kg

Frequency of Treatment: 5 days/week Method: OECD Test Guideline 453

Result: negative

Carcinogenicity - Assessment:

No data available.

Reproductive toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Effects on fertility:

Test Type: Two-generation study Species: Rat, male and female Application Route: Oral Dose: >750 milligram per kilogram

General Toxicity - Parent: No-observed-effect level:

540 mg/kg body weight

General Toxicity F1: No-observed-effect level:

540 mg/kg body weight Symptoms: No adverse effects Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic development were detected.

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Effects on foetal development: Species: Rabbit, female Application Route: Dermal

General Toxicity Maternal: No observed adverse effect level:

30 mg/kg body weight Method: Other guidelines Result: No teratogenic effects

Species: Rabbit, female Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

60 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat, female Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

180 mg/kg body weight



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Method: OECD Test Guideline 414 Result: No teratogenic effects

Reproductive toxicity – Assessment:

No data available.

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rat, male and female

NOAEL: 50 mg/kg

Application Route: Ingestion Exposure time: 14 Weeks Number of exposures: 7 d Method: Subchronic toxicity

Species: Mouse, male NOAEL: 100 mg/kg

Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 3 d Method: Subchronic toxicity

1,4-bis(2,3-epoxypropoxy)butane: Species: Rat, male and female

NOAEL: 200 mg/kg

Application Route: Ingestion Exposure time: 28 d Number of exposures: 7 d Method: Subacute toxicity

Repeated dose toxicity – Assessment:

No data available.

Aspiration toxicity

No data available

Experience with human exposure

General Information:

Inhalation: No data available Skin contact: No data available Eye contact: No data available Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Ingestion: No data available

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12. Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity:

This product has no known ecotoxicological effects.

Chronic aquatic toxicity:

Toxic to aquatic life with long lasting effects.

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Toxicity to fish:

LC50 (Oncorhynchus mykiss (rainbow trout)): 1,5 mg/l

Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): 2,7 mg/l

Exposure time: 48 h
Test Type: static test
Test substance: Fresh water

Toxicity to algae:

EC50 (Selenastrum capricornutum (green algae)): 9,4 mg/l

Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: EPA-660/3-75-009
Toxicity to microorganisms:

IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h
Test Type: static test
Test substance: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):

NOEC: 0,3 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211 1,4-bis(2,3-epoxypropoxy)butane:

Toxicity to fish:

LC50 (Brachydanio rerio (zebrafish)): 24 mg/l

Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): 75 mg/l

Exposure time: 24 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

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Toxicity to algae: EL50: > 160 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201 Toxicity to microorganisms:

IC50 (activated sludge): > 100 mg/l Exposure time: 3 h

Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209

12.2 Persistence and degradability

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Biodegradability:

Inoculum: Sewage (STP effluent)

Concentration: 20 mg/l

Result: Not readily biodegradable.

Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Stability in water:

Degradation half life (DT50): 4,83 d (25 °C)

pH: 4

Method: OECD Test Guideline 111

Remarks: Fresh water

Degradation half life (DT50): 7,1 d (25 °C)

pH: 9

Method: OECD Test Guideline 111

Remarks: Fresh water

Degradation half life (DT50): 3,58 d (25 °C)

pH: 7

Method: OECD Test Guideline 111

Remarks: Fresh water

1,4-bis(2,3-epoxypropoxy)butane:

Biodegradability:

Inoculum: activated sludge Concentration: 20 mg/l

Result: Not readily biodegradable.

Biodegradation: 43 % Exposure time: 28 d

Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Components:

 $2,2'\hbox{-}\hbox{[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]} bisoxirane:$

Bioaccumulation:

Bioconcentration factor (BCF): 31 Remarks: Does not bioaccumulate. Partition coefficient: n-octanol/water:

log Pow: 3,242 (25 °C) pH: 7,1

Method: OECD Test Guideline 117



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1,4-bis(2,3-epoxypropoxy)butane:

Partition coefficient: n-octanol/water:

log Pow: -0,269 (25 °C)

pH: 6,7

Method: OECD Test Guideline 117

12.4 Mobility in soil

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Distribution among environmental compartments:

Koc: 445

1,4-bis(2,3-epoxypropoxy)butane:

Distribution among environmental compartments:

Koc: 12,59

Method: OECD Test Guideline 121

12.5 Results of PBT and vPvB assessment

Product:

Assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Additional ecological information:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

13. Disposal considerations

13.1 Waste treatment methods

Product:

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and national regulations.

Dispose of contents/ container to an approved waste disposal plant.

Contaminated packaging:

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

14. Transport information

IATA:

14.1 UN number UN3082

14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s.

(BISPHENOL A EPOXY RESIN)

14.3 Transport hazard class(es) 9

14.4 Packing group

.abels: Miscellaneous

Packing instruction (cargo aircraft): 964
Packing instruction (passenger aircraft): 964



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IMDG:

14.1 UN number UN 3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (BISPHENOL A EPOXY RESIN)

14.3 Transport hazard class(es)914.4 Packing groupIIILabels:9

EmS Code F-A, S-F

14.5 Environmental hazards

Marine pollutant yes

ADR:

14.1 UN number UN 3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (BISPHENOL A EPOXY RESIN)

14.3 Transport hazard class(es)914.4 Packing groupIIILabels:914.5 Environmental hazards

Environmental hazardous yes

RID:

14.1 UN number UN 3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S.(BISPHENOL A EPOXY RESIN)

14.3 Transport hazard class(es)914.4 Packing groupIIILabels:9

14.5 Environmental hazards

Environmental hazardous yes

Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

15. Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

This product does not contain substances of very high concern (Regulation (EC) No1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

REACH - List of substances subject to authorisation - Future sunset date: Not applicable

Ordinance on Protection against Major Accidents

Threshold quantity according to Major Accidents Ordinance (MAO 814.012): 20.000 kg

Other regulations:

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2): Young people undergoing basic vocational training may only work with this product if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not completing any basic vocational training are not permitted to work with this product. Employees of either sex who are under 18 years old are classed as young people.



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The components of this product are reported in the following inventories:

DSL: All components of this product are on the Canadian DSL

AICS: On the inventory, or in compliance with the inventory

NZIoC: Not in compliance with the inventory

ENCS: On the inventory, or in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory

PICCS: On the inventory, or in compliance with the inventory

IECSC: On the inventory, or in compliance with the inventory

TCSI: On the inventory, or in compliance with the inventory

TSCA: On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

15.2 Chemical safety assessment

Chemical Safety Assessments for applicable.

16. Other information

Full text of H-Statements

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. Acute toxicity

Aquatic Chronic Chronic aquatic toxicity
Eye Dam. Serious eye damage

Eye Irrit. Eye irritation
Skin Irrit. Skin irritation
Skin Sens. Skin sensitisation

Classification of the mixture: Classification procedure:

Skin Irrit. 2 H315 Based on product data or assessment Eye Irrit. 2 H319 Based on product data or assessment

Skin Sens. 1 H317 Calculation method

Aquatic Chronic 2 H411 Based on product data or assessment

The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.