

Safety Data Sheet according to Regulation (EC) No 1907/2006

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SDS No.: 173479

V001.0 Revision: 24.02.2017

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3472A

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

1.1. Product identifier

3472A

Contains:

Epoxy resin (number average molecular weight ≤ 700)

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

Intended use:

Epoxy adhesive

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 (211) 797 0 Fax-no.: +49 (211) 798 4008

ua-productsafety.de@henkel.com

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Chronic hazards to the aquatic environment Category 2

H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

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Hazard pictogram:



Signal word: Warning

Hazard statement: 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 statement: P273 Avoid release to the environment.

Prevention P280 Wear protective gloves.

Precautionary statement: P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components CAS-No. | EC Number REACH-Reg No. | content | Classification |
|--|--|----------|---|
| Iron 7439-89-6 | 231-096-4 01-2119462838-24 | 30- 40 % | Flam. Sol. 2 H228 |
| Epoxy resin (number average molecular weight ≤ 700) 25068-38-6 | 500-033-5 500-033-5 01-2119456619-26 | 30- 40 % | Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Aquatic Chronic 2 H411 |

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eve contact

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

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Ingestion:

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.

Seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

SKIN: Rash, Urticaria.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

Wash spillage site thoroughly with soap and water or detergent solution.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use only in well-ventilated areas.

Avoid skin and eye contact.

Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

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7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place. Refer to Technical Data Sheet

7.3. Specific end use(s)

Epoxy adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Germany

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|----------------------------------|-----|-------------------|-------------------------------------|---|-----------------|
| Diiron trioxide 1309-37-1 | | 10 | Exposure limit(s): | 2 | TRGS 900 |
| Diiron trioxide 1309-37-1 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Diiron trioxide 1309-37-1 | | 1,25 | Exposure limit(s): | | TRGS 900 |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|------------------------------------|-----------------|------------|-----|----------------|--------|---------|
| | • | | mg/l | ppm | mg/kg | others | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | aqua (freshwater) | | 0,006 mg/l | | | | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | aqua (marine water) | | 0,001 mg/l | | | | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | aqua (intermittent releases) | | 0,018 mg/l | | | | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | sewage treatment plant (STP) | | 10 mg/l | | | | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | sediment (freshwater) | | | | 0,996 mg/kg | | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | sediment (marine water) | | | | 0,1 mg/kg | | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | soil | | | | 0,196 mg/kg | | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | oral | | | | 11 mg/kg | | |

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Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|-----------------------|----------------------|--|------------------|-------------------|---------|
| Iron 7439-89-6 | General population | oral | Long term exposure - systemic effects | | 0,71 mg/kg | |
| Iron 7439-89-6 | General population | inhalation | Long term exposure - local effects | | 1,5 mg/m3 | |
| Iron 7439-89-6 | Workers | inhalation | Long term exposure - local effects | | 3 mg/m3 | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | Workers | dermal | Acute/short term exposure - systemic effects | | 8,33 mg/kg bw/day | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | Workers | Inhalation | Acute/short term exposure - systemic effects | | 12,25 mg/m3 | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | Workers | dermal | Long term exposure - systemic effects | | 8,33 mg/kg | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | Workers | Inhalation | Long term exposure - systemic effects | | 12,25 mg/m3 | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | General population | dermal | Acute/short term exposure - systemic effects | | 3,571 mg/kg | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | General population | dermal | Long term exposure - systemic effects | | 3,571 mg/kg | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | General population | Inhalation | Acute/short term exposure - systemic effects | | 0,75 mg/m3 | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | General population | Inhalation | Long term exposure - systemic effects | | 0,75 mg/m3 | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | General population | oral | Acute/short term exposure - systemic effects | | 0,75 mg/kg | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | General population | oral | Long term exposure - systemic effects | | 0,75 mg/kg | |

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

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Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Avoid eye contact.

Tightly fitting safety goggles

Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance paste

grey

Odor characteristic

Odour threshold No data available / Not applicable

pH No data available / Not applicable

Initial boiling point > 100 °C (> 212 °F) Flash point > 100 °C (> 212 °F)

Decomposition temperature

No data available / Not applicable

Vapour pressure

No data available / Not applicable

Density 2,35 g/cm³

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Bulk density

No data available / Not applicable
Viscosity

No data available / Not applicable
Viscosity (kinematic)

No data available / Not applicable
Explosive properties

No data available / Not applicable

Solubility (qualitative) Not miscible

(Solvent: Water)
Solidification temperature

No data available / Not applicable Melting point No data available / Not applicable Flammability No data available / Not applicable No data available / Not applicable Auto-ignition temperature Explosive limits No data available / Not applicable Partition coefficient: n-octanol/water No data available / Not applicable Evaporation rate No data available / Not applicable Vapor density No data available / Not applicable Oxidising properties No data available / Not applicable

9.2. Other information

No data available / Not applicable

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with strong oxidants.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Oral toxicity:

May cause irritation to the digestive tract.

Inhalative toxicity:

May cause irritation to respiratory system.

Skin irritation:

Causes skin irritation.

Eye irritation:

Causes serious eye irritation.

Sensitizing:

May cause an allergic skin reaction.

Acute oral toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|--|---------------|---------------|----------------------|---------------|---------|---|
| Iron 7439-89-6 | LD50 | 98.600 mg/kg | oral | | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Epoxy resin (number average molecular weight ≤ 700) 25068-38-6 | LD50 | > 2.000 mg/kg | oral | | rat | OECD Guideline 420 (Acute Oral Toxicity) |

Acute dermal toxicity:

| Hazardous components | Value | Value | Route of | Exposure | Species | Method |
|---|-------|---------------|-------------|----------|---------|---------------|
| CAS-No. | type | | application | time | | |
| Epoxy resin (number average molecular weight ≤ 700) 25068-38-6 | LD50 | > 2.000 mg/kg | dermal | | rat | not specified |

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Skin corrosion/irritation:

| Hazardous components | Result | Exposure | Species | Method |
|--|-----------------------|----------|---------|--------------------------------|
| CAS-No. | | time | | |
| Iron | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute |
| 7439-89-6 | | | | Dermal Irritation / Corrosion) |
| Epoxy resin (number average molecular weight | moderately irritating | 24 h | rabbit | Draize Test |
| ≤ 700) | | | | |
| 25068-38-6 | | | | |

Serious eye damage/irritation:

| Hazardous components | Result | Exposure | Species | Method |
|--------------------------|----------------|----------|---------|-----------------------------|
| CAS-No. | | time | | |
| Iron | not irritating | | rabbit | OECD Guideline 405 (Acute |
| 7439-89-6 | | | | Eye Irritation / Corrosion) |
| Epoxy resin (number | not irritating | | rabbit | OECD Guideline 405 (Acute |
| average molecular weight | _ | | | Eye Irritation / Corrosion) |
| ≤ 700) | | | | - |
| 25068-38-6 | | | | |

${\bf Respiratory\ or\ skin\ sensitization:}$

| Hazardous components CAS-No. | Result | Test type | Species | Method |
|---|-----------------|---|------------|---|
| Iron 7439-89-6 | not sensitising | Maurer optimisati on test | guinea pig | not specified |
| Epoxy resin (number average molecular weight ≤ 700) 25068-38-6 | sensitising | Mouse local lymphnod e assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

Germ cell mutagenicity:

| Hazardous components CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|----------|--|--|---------|---|
| Iron 7439-89-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Epoxy resin (number average molecular weight ≤ 700) 25068-38-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay) |
| Epoxy resin (number average molecular weight ≤ 700) 25068-38-6 | negative | oral: gavage | | mouse | not specified |

Carcinogenicity:

| Hazardous components CAS-No. | Result | Species | Sex | Exposure timeFrequenc y of treatment | Route of application | Method |
|---|------------------|---------|-------------|--|----------------------|---|
| Epoxy resin (number average molecular weight ≤ 700) 25068-38-6 | not carcinogenic | mouse | male | 2 y daily | dermal | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| Epoxy resin (number average molecular weight ≤ 700) 25068-38-6 | not carcinogenic | rat | male/female | 2 y daily | oral: gavage | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

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Reproductive toxicity:

| Hazardous substances | Result / Classification | Species | Exposure | Species | Method |
|--------------------------|-----------------------------------|--------------|----------|---------|--------------------------|
| CAS-No. | | | time | | |
| Epoxy resin (number | NOAEL $P = >= 50 \text{ mg/kg}$ | Two | 238 d | rat | OECD Guideline 416 (Two- |
| average molecular weight | NOAEL F1 = $>= 750 \text{ mg/kg}$ | generation | | | Generation Reproduction |
| ≤ 700) | NOAEL F2 = $>= 750 \text{ mg/kg}$ | study | | | Toxicity Study) |
| 25068-38-6 | | oral: gavage | | | |

Repeated dose toxicity

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|----------------|----------------------|--|---------|--|
| Epoxy resin (number average molecular weight ≤ 700) | NOAEL=50 mg/kg | oral: gavage | 14 wdaily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| 25068-38-6 | | | | | |

SECTION 12: Ecological information

General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

12.1. Toxicity

Ecotoxicity:

Do not empty into drains / surface water / ground water.

Toxic to aquatic life with long lasting effects.

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity | Exposure time | Species | Method |
|--|---------------|------------|--------------------|---------------|------------------------------|---|
| | | | Study | | | |
| Epoxy resin (number average molecular weight ≤ 700) 25068-38-6 | LC50 | 1,75 mg/l | Fish | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Epoxy resin (number average molecular weight ≤ 700) 25068-38-6 | EC50 | 1,7 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation |
| Epoxy resin (number average molecular weight ≤ 700) 25068-38-6 | EC50 | > 11 mg/l | Algae | 72 h | Scenedesmus capricornutum | Test) OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 25000-50-0 | NOEC | 4,2 mg/l | Algae | 72 h | Scenedesmus capricornutum | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Epoxy resin (number average molecular weight ≤ 700) 25068-38-6 | IC50 | > 100 mg/l | Bacteria | 3 h | activated sludge, industrial | other guideline: |
| Epoxy resin (number average molecular weight ≤ 700) 25068-38-6 | NOEC | 0,3 mg/l | chronic Daphnia | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

12.2. Persistence and degradability

Persistence and Biodegradability:

The product is not biodegradable.

| Hazardous components | Result | Route of | Degradability | Method |
|----------------------|--------|-------------|---------------|--------|
| CAS-No. | | application | | |

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| Epoxy resin (number average | | aerobic | 5 % | OECD Guideline 301 F (Ready |
|-----------------------------|--|---------|-----|------------------------------|
| molecular weight ≤ 700) | | | | Biodegradability: Manometric |
| 25068-38-6 | | | | Respirometry Test) |

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Mobility:

Cured adhesives are immobile.

Bioaccumulative potential:

No data available for the product.

| Hazardous components CAS-No. | LogPow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|------------------------------|--------|----------------------------------|---------------|---------|-------------|--------------------------|
| Epoxy resin (number average | 3,242 | | | | 25 °C | EU Method A.8 (Partition |
| molecular weight ≤ 700) | | | | | | Coefficient) |
| 25068-38-6 | | | | | | |

12.5. Results of PBT and vPvB assessment

| Hazardous components | PBT/vPvB |
|--|--|
| CAS-No. | |
| Iron | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 7439-89-6 | Bioaccumulative (vPvB) criteria. |
| Epoxy resin (number average molecular weight | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| ≤ 700) | Bioaccumulative (vPvB) criteria. |
| 25068-38-6 | |

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Collection and delivery to recycling enterprise or other registered elimination institution.

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

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SECTION 14: Transport information

14.1. UN number

| ADR | 3082 |
|------|------|
| RID | 3082 |
| ADN | 3082 |
| IMDG | 3082 |
| IATA | 3082 |

14.2. UN proper shipping name

ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

IATA Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin

resin)

14.3. Transport hazard class(es)

| ADR | 9 |
|------|---|
| RID | 9 |
| ADN | 9 |
| IMDG | 9 |
| IATA | Ç |

14.4. Packing group

| ADR | III |
|------|-----|
| RID | III |
| ADN | III |
| IMDG | III |
| IATA | III |

14.5. Environmental hazards

| ADR | not applicable |
|------|------------------|
| RID | not applicable |
| ADN | not applicable |
| IMDG | Marine pollutant |
| IATA | not applicable |

14.6. Special precautions for user

| not applicable | |
|-----------------|--|
| Tunnelcode: (E) | |
| not applicable | |
| | |

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

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

not applicable

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SECTION 15: Regulatory information

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

VOC content < 3,00 % Combined A/B

(2010/75/EC)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK: WGK = 2, water endangering product. Classification according to the mixture

rules in German VwVwS regulation annex 4 from 27.July 2005.

Storage class according to TRGS 510: 10

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H228 Flammable solid.

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.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.