# SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

# ABS-CEA part A

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

### 1.1. Product identifier

**Product name** : ABS-CEA part A
**Registration number REACH** : Not applicable (mixture)
**Product type REACH** : Mixture

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

**1.2.1 Relevant identified uses**

Absorbent: electromagnetics
Component
Lacquer/varnish

**1.2.2 Uses advised against**

No uses advised against known

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

**Supplier of the safety data sheet**

ABS Technics BVBA
Lemmensblok 31
B-2400 Mol
+32 478 50 30 99
johan.kenis@abstechnics.com

### 1.4. Emergency telephone number

24h/24h:
+32 478 50 30 99

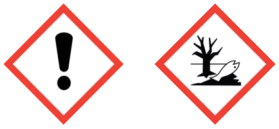
## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class | Category | Hazard statements |
|---|---|---|
| Skin Sens. | category 1 | H317: May cause an allergic skin reaction. |
| Skin Irrit. | category 2 | H315: Causes skin irritation. |
| Eye Irrit. | category 2 | H319: Causes serious eye irritation. |
| Aquatic Chronic | category 2 | H411: Toxic to aquatic life with long lasting effects. |

### 2.2. Label elements



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

**Signal word** Warning

**H-statements**

H317 May cause an allergic skin reaction.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

**P-statements**

P280 Wear protective gloves, protective clothing and eye protection/face protection.
P264 Wash hands thoroughly after handling.
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

No other hazards known

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name<br>REACH Registration No | CAS No<br>EC No | Conc. (C) | Classification according to CLP | Note | Remark |
|---|---|---|---|---|---|
| reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) | 25068-38-6<br>500-033-5 | 4.11%<br><C<64.53% | Skin Sens. 1; H317<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Aquatic Chronic 2; H411 | (1)(8)(10) | Constituent |

(1) For H-statements in full: see heading 16
(8) Specific concentration limits, see heading 16
(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General:**
Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

**After inhalation:**
Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

**After skin contact:**
Wash immediately with lots of water. Do not apply (chemical) neutralizing agents without medical advice. Take victim to a doctor if irritation persists.

**After eye contact:**
Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists.

**After ingestion:**
Rinse mouth with water. Do not induce vomiting. Do not apply (chemical) neutralizing agents without medical advice. Consult a doctor/medical service if you feel unwell.

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

**4.2.1 Acute symptoms**

**After inhalation:**
No effects known.

**After skin contact:**
Tingling/irritation of the skin.

**After eye contact:**
Irritation of the eye tissue.

**After ingestion:**
No effects known.

**4.2.2 Delayed symptoms**
No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**5.1.1 Suitable extinguishing media:**
Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (not alcohol-resistant).

**5.1.2 Unsuitable extinguishing media:**
Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.
Major fire: Water; risk of puddle expansion.

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

Upon combustion CO and CO2 are formed and formation of metallic fumes.

### 5.3. Advice for firefighters

**5.3.1 Instructions:**
If exposed to fire cool the closed containers by spraying with water. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

**5.3.2 Special protective equipment for fire-fighters:**

Gloves. Face-shield. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

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

No naked flames.

**6.1.1 Protective equipment for non-emergency personnel**

See heading 8.2

**6.1.2 Protective equipment for emergency responders**

Gloves. Face-shield. Protective clothing.

Suitable protective clothing

See heading 8.2

### 6.2. Environmental precautions

Contain released product, pump into suitable containers. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

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

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Gas/vapour heavier than air at 20°C. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately. Do not discharge the waste into the drain. Keep container tightly closed.

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

**7.2.1 Safe storage requirements:**

Meet the legal requirements. Max. storage time: 365 day(s).

**7.2.2 Keep away from:**

Heat sources.

**7.2.3 Suitable packaging material:**

No data available

**7.2.4 Non suitable packaging material:**

No data available

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**8.1.1 Occupational exposure**

**a) Occupational exposure limit values**

If limit values are applicable and available these will be listed below.

**b) National biological limit values**

If limit values are applicable and available these will be listed below.

**8.1.2 Sampling methods**

If applicable and available it will be listed below.

**8.1.3 Applicable limit values when using the substance or mixture as intended**

If limit values are applicable and available these will be listed below.

**8.1.4 Threshold values**

**DNEL/DMEL - Workers**

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

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects inhalation | 12.25 mg/m³ | |
| | Acute systemic effects inhalation | 12.25 mg/m³ | |
| | Long-term systemic effects dermal | 8.33 mg/kg bw/day | |
| | Acute systemic effects dermal | 8.33 mg/kg bw/day | |

**DNEL/DMEL - General population**

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

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects dermal | 3.571 mg/kg bw/day | |
| | Acute systemic effects dermal | 3.571 mg/kg bw/day | |
| | Long-term systemic effects oral | 0.75 mg/kg bw/day | |
| | Acute systemic effects oral | 0.75 mg/kg bw/day | |

**PNEC**

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

| Compartments | Value | Remark |
|---|---|---|
| Fresh water | 0.006 mg/l | |
| Marine water | 0.001 mg/l | |
| Aqua (intermittent releases) | 0.018 mg/l | |
| STP | 10 mg/l | |
| Fresh water sediment | 0.996 mg/kg sediment dw | |
| Marine water sediment | 0.1 mg/kg sediment dw | |
| Soil | 0.196 mg/kg soil dw | |
| Oral | 11 mg/kg food | |

**8.1.5 Control banding**

If applicable and available it will be listed below.

### 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

**8.2.1 Appropriate engineering controls**

Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

**8.2.2 Individual protection measures, such as personal protective equipment**

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

a) Respiratory protection:

High gas/vapour concentration: full face mask with filter type A.

b) Hand protection:

Gloves.

c) Eye protection:

Face shield.

d) Skin protection:

Protective clothing.

**8.2.3 Environmental exposure controls:**

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical form | Liquid |
| Odour | No data available on odour |
| Odour threshold | No data available |
| Colour | Dark grey |
| Particle size | Not applicable (liquid) |
| Explosion limits | No data available |
| Flammability | Non-flammable |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | No data available |
| Kinematic viscosity | No data available |
| Melting point | No data available |
| Boiling point | No data available |
| Evaporation rate | No data available |
| Relative vapour density | > 1 |
| Vapour pressure | No data available |
| Solubility | Water ; poorly soluble |
| Relative density | 1.5 - 1.8 |
| Decomposition temperature | No data available |
| Auto-ignition temperature | No data available |
| Flash point | 8 °C |
| Explosive properties | No chemical group associated with explosive properties |
| Oxidising properties | No chemical group associated with oxidising properties |
| pH | No data available |

### 9.2. Other information

| | |
|---|---|
| Absolute density | 1500 kg/m³ - 1800 kg/m³ |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating increases the fire hazard. Substance sinks in water.

### 10.2. Chemical stability

No data available.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

**Precautionary measures**

Keep away from naked flames/heat.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

Upon combustion CO and CO2 are formed and formation of metallic fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**11.1.1 Test results**

**Acute toxicity**

ABS-CEA part A

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Oral | LD50 | | > 2000 mg/kg | | Rat | Literature study | |

Judgement is based on the relevant ingredients
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Oral | LD50 | OECD 420 | > 2000 mg/kg | | Rat (female) | Experimental value | |
| Dermal | LD50 | OECD 402 | > 2000 mg/kg | 24 h | Rat (male / female) | Experimental value | |
| Inhalation (vapours) | LC0 | | 0.000008 ppm | 5 h | Rat (male) | Experimental value | |

**Conclusion**

Not classified for acute toxicity

**Corrosion/irritation**

ABS-CEA part A

No (test)data on the mixture available

Classification is based on the relevant ingredients
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Eye | Irritating | | | | Rabbit | Experimental value | |
| Skin | Irritating | | | | Rabbit | Experimental value | |

**Conclusion**

Causes skin irritation.
Causes serious eye irritation.
Not classified as irritating to the respiratory system

**Respiratory or skin sensitisation**

ABS-CEA part A

No (test)data on the mixture available

Classification is based on the relevant ingredients
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Dermal (on the ears) | Sensitizing | OECD 429 | | | Mouse (female) | Experimental value | |

**Conclusion**

May cause an allergic skin reaction.
Not classified as sensitizing for inhalation

**Specific target organ toxicity**

ABS-CEA part A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|---|
| Oral (stomach tube) | NOAEL | OECD 408 | 50 mg/kg bw/day | | No effect | 14 weeks (daily) | Rat (male / female) | Experimental value |
| Dermal | NOAEL | OECD 411 | 100 mg/kg bw/day | | No adverse systemic effects | 13 weeks (3 times / week) | Mouse (male) | Experimental value |

**Conclusion**

Not classified for subchronic toxicity

**Mutagenicity (in vitro)**

ABS-CEA part A

No (test)data on the mixture available

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

| Result | Method | Test substrate | Effect | Value determination |
|---|---|---|---|---|
| Negative with metabolic activation, negative without metabolic activation | OECD 472 | Bacteria (S.typhimurium) | No effect | Experimental value |
| Positive with metabolic activation, positive without metabolic activation | | Mouse (lymphoma L5178Y cells) | | Experimental value |

**Mutagenicity (in vivo)**

ABS-CEA part A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---|---|---|---|---|---|
| Negative | Chromosome aberration assay | | Mouse (male) | | Experimental value |

**Conclusion**

Not classified for mutagenic or genotoxic toxicity

**Carcinogenicity**

ABS-CEA part A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Oral (stomach tube) | NOAEL | OECD 453 | 15 mg/kg/d - 100 mg/kg/d | 104 weeks (daily) | Rat (male / female) | No carcinogenic effect | | Experimental value |

**Conclusion**

Not classified for carcinogenicity

**Reproductive toxicity**

ABS-CEA part A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | > 540 mg/kg/d | 10 days (gestation, daily) | Rat (female) | No effect | Foetus | Experimental value |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | 180 mg/kg bw/day | 10 days (gestation, daily) | Rat (female) | No effect | | Experimental value |
| Effects on fertility (Oral (stomach tube)) | NOEL | OECD 416 | 750 mg/kg bw/day | 238 day(s) | Rat (male / female) | No effect | | Experimental value |

**Conclusion**

Not classified for reprotoxic or developmental toxicity

**Toxicity other effects**

ABS-CEA part A

No (test)data on the mixture available

**Chronic effects from short and long-term exposure**

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Skin rash/inflammation.

## SECTION 12: Ecological information

### 12.1. Toxicity

ABS-CEA part A

No (test)data on the mixture available

Classification is based on the relevant ingredients

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

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|---|---|---|---|---|---|---|---|
| Acute toxicity fishes | LC50 | OECD 203 | 2.3 mg/l | 96 h | Oncorhynchus mykiss | Semi-static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | EC50 | Equivalent to OECD 202 | 1.1 mg/l - 2.8 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | ErC50 | EPA 660/3 - 75/009 | > 11 mg/l | 72 h | Scenedesmus sp. | Static system | Fresh water | Experimental value |
| | NOEC | EPA 660/3 - 75/009 | 4.2 mg/l | 72 h | Scenedesmus sp. | Static system | Fresh water | Experimental value |
| Long-term toxicity fish | | | | | | | | Data waiving |
| Long-term toxicity aquatic crustacea | NOEC | Equivalent to OECD 211 | 0.3 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Experimental value; GLP |
| Toxicity aquatic micro-organisms | IC50 | | > 100 mg/l | 3 h | Activated sludge | Static system | Fresh water | Experimental value; Nominal concentration |

**Conclusion**

Toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

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

**Biodegradation water**

| Method | Value | Duration | Value determination |
|---|---|---|---|
| OECD 301F: Manometric Respirometry Test | 5 %; Oxygen consumption | 28 day(s) | Experimental value |

**Phototransformation air (DT50 air)**

| Method | Value | Conc. OH-radicals | Value determination |
|---|---|---|---|
| AOPWIN v1.91 | 6.44 h | 500000 /cm³ | Calculated value |

**Half-life water (t1/2 water)**

| Method | Value | Primary degradation/mineralisation | Value determination |
|---|---|---|---|
| OECD 111: Hydrolysis as a function of pH | 86 h; pH = 7 | | Experimental value |

**Conclusion**

Contains non readily biodegradable component(s)

### 12.3. Bioaccumulative potential

ABS-CEA part A

**Log Kow**

| Method | Remark | Value | Temperature | Value determination |
|---|---|---|---|---|
| | Not applicable (mixture) | | | |

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

**BCF other aquatic organisms**

| Parameter | Method | Value | Duration | Species | Value determination |
|---|---|---|---|---|---|
| BCF | | 31; Fresh weight | | | Estimated value |

**Log Kow**

| Method | Remark | Value | Temperature | Value determination |
|---|---|---|---|---|
| OECD 117 | | 2.64 - 3.78 | 25 °C | Experimental value |

**Conclusion**

No straightforward conclusion can be drawn based upon the available numerical values

### 12.4. Mobility in soil

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

**(log) Koc**

| Parameter | Method | Value | Value determination |
|---|---|---|---|
| log Koc | SRC PCKOCWIN v2.0 | 2.65 | QSAR |

**Percent distribution**

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|---|---|---|---|---|---|---|
| Mackay level III | 0 % | | 1.9 % | 84.3 % | 13.8 % | Calculated value |

**Conclusion**

Contains component(s) with potential for mobility in the soil
Contains component(s) that adsorb(s) into the soil

### 12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

### 12.6. Other adverse effects

ABS-CEA part A

**Fluorinated greenhouse gases (Regulation (EU) No 517/2014)**

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

**Ozone-depleting potential (ODP)**

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

**13.1.1 Provisions relating to waste**

**European Union**

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.
Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).
08 01 11* (wastes from MFSU and removal of paint and varnish: waste paint and varnish containing organic solvents or other hazardous substances).
Depending on branch of industry and production process, also other waste codes may be applicable.

**13.1.2 Disposal methods**

Recycle/reuse. Incinerate under surveillance with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

**13.1.3 Packaging/Container**

**European Union**

Waste material code packaging (Directive 2008/98/EC).
15 01 10* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

### Road (ADR)

14.1. UN number

| | |
|---|---|
| UN number | 3082 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)) |

14.3. Transport hazard class(es)

| | |
|---|---|
| Hazard identification number | 90 |
| Class | 9 |
| Classification code | M6 |

14.4. Packing group

| | |
|---|---|
| Packing group | III |
| Labels | 9 |

14.5. Environmental hazards

| | |
|---|---|
| Environmentally hazardous substance mark | yes |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | 274 |
| Special provisions | 335 |
| Special provisions | 375 |
| Special provisions | 601 |
| Limited quantities | Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

### Rail (RID)

14.1. UN number

| | |
|---|---|
| UN number | 3082 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)) |

14.3. Transport hazard class(es)

| | |
|---|---|
| Hazard identification number | 90 |
| Class | 9 |
| Classification code | M6 |

14.4. Packing group

| | |
|---|---|
| Packing group | III |
| Labels | 9 |

14.5. Environmental hazards

| | |
|---|---|
| Environmentally hazardous substance mark | yes |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | 274 |
| Special provisions | 335 |
| Special provisions | 375 |
| Special provisions | 601 |
| Limited quantities | Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

## Inland waterways (ADN)

14.1. UN number

| | |
|---|---|
| UN number | 3082 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)) |

14.3. Transport hazard class(es)

| | |
|---|---|
| Class | 9 |
| Classification code | M6 |

14.4. Packing group

| | |
|---|---|
| Packing group | III |
| Labels | 9 |

14.5. Environmental hazards

| | |
|---|---|
| Environmentally hazardous substance mark | yes |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | 274 |
| Special provisions | 335 |
| Special provisions | 375 |
| Special provisions | 601 |
| Limited quantities | Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

## Sea (IMDG/IMSBC)

14.1. UN number

| | |
|---|---|
| UN number | 3082 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)) |

14.3. Transport hazard class(es)

| | |
|---|---|
| Class | 9 |

14.4. Packing group

| | |
|---|---|
| Packing group | III |
| Labels | 9 |

14.5. Environmental hazards

| | |
|---|---|
| Marine pollutant | P |
| Environmentally hazardous substance mark | yes |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | 274 |
| Special provisions | 335 |
| Special provisions | 969 |
| Limited quantities | Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

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

| | |
|---|---|
| Annex II of MARPOL 73/78 | Not applicable, based on available data |

## Air (ICAO-TI/IATA-DGR)

14.1. UN number

| | |
|---|---|
| UN number | 3082 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)) |

14.3. Transport hazard class(es)

| | |
|---|---|
| Class | 9 |

14.4. Packing group

| | |
|---|---|
| Packing group | III |
| Labels | 9 |

14.5. Environmental hazards

| | |
|---|---|
| Environmentally hazardous substance mark | yes |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | A97 |
| Special provisions | A158 |
| Special provisions | A197 |

Passenger and cargo transport

| | |
|---|---|
| Limited quantities: maximum net quantity per packaging | 30 kg G |

## SECTION 15: Regulatory information

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

**European legislation:**

VOC content Directive 2010/75/EU

| VOC content | Remark |
|---|---|
| 0 % | |

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Reference legislation

See column 1: 3.

**National legislation The Netherlands**

ABS-CEA part A

| | |
|---|---|
| Waterbezwaarlijkheid | A (2); Algemene Beoordelingsmethodiek |

**National legislation Germany**

ABS-CEA part A

| | |
|---|---|
| WGK | 2; Classification in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) of 18 April 2017 |

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

| | |
|---|---|
| TA-Luft | 5.2.5; I; I |

### 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

## SECTION 16: Other information

**Full text of any H-statements referred to under heading 3:**

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.

| | |
|---|---|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| ADI | Acceptable daily intake |
| AOEL | Acceptable operator exposure level |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC50 | Effect Concentration 50 % |
| ErC50 | EC50 in terms of reduction of growth rate |
| LC50 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| NOAEL | No Observed Adverse Effect Level |
| NOEC | No Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent, Bioaccumulative & Toxic |
| PNEC | Predicted No Effect Concentration |
| STP | Sludge Treatment Process |
| vPvB | very Persistent & very Bioaccumulative |

**Specific concentration limits CLP**

| | | | |
|---|---|---|---|
| reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) | C ≥ 5% | Eye Irrit. 2; H319 | CLP Annex VI (ATP 0) |
| | C ≥ 5 % | Skin Irrit. 2; H315 | CLP Annex VI (ATP 0) |

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.