

IMPA 81230 1

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

**CORDOBOND
EPOXY SYSTEMS**

Trade name : Cordobond Standard - Component A

Revision date : 10.05.2017

Print date : 10-05-2017

Version (Revision) : 8.1.0 (8.0.0)

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

1.1 Product identifier

Cordobond Standard - Component A (324000010A)

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

Solventfree two component glue based on epoxy

Relevant identified uses

In compliance with the conditions described in the annex to this safety data sheet. See section 16 for a comprehensive list of uses, for which an exposure scenario is provided as an annex.

Sector of uses [SU]

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Article categories [AC]

AC4 - Stone, plaster, cement, glass and ceramic articles

AC11 - Wood articles

AC7 - Metal articles

Process categories [PROC]

PROC10 - Roller application or brushing

PROC19 - Hand-mixing with intimate contact and only PPE available

PROC21 - Low energy manipulation of substances bound in materials and/or articles

PROC24 - High (mechanical) energy work-up of substances bound in materials and/or articles

Environmental release categories [ERC]

ERC8c - Wide dispersive indoor use resulting in inclusion into or onto a matrix

ERC8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix

ERC10a - Wide dispersive outdoor use of long-life articles and materials with low release

ERC11a - Wide dispersive indoor use of long-life articles and materials with low release

Uses advised against

Do not use for private purposes (household).

Remark

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer) : Cordobond International BV

Street : Fultonstraat 48

Postal code/city : 3133 KH VLAARDINGEN

Telephone : +31(0)10 473 08 65

Information contact : info@cordobond.nl

1.4 Emergency telephone number

+31 30 274 88 88

European emergency number: 112. The Netherlands: NVIC (+31 30 274 88 88), intended exclusively for informing professional care workers in acute poisoning

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects. Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation. Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation. Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

Trade name : Cordobond Standard - Component A

Revision date : 10.05.2017

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2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6 BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5

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 dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: 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.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700); REACH registration No. : 01-2119456619-26 ; EC No. : 500-033-5; CAS No. : 25068-38-6 Weight fraction : ≥ 25 - < 50 % Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; REACH registration No. : 01-211-454392-40 ; EC No. : 500-006-8; CAS No. : 9003-36-5 Weight fraction : ≥ 25 - < 50 % Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

In case of skin contact

In case of skin reactions, consult a physician. Immediately remove any contaminated clothing, shoes or stockings. After contact with skin, wash immediately with plenty of water and soap. Do not use force or solvents to remove product incrustations from affected skin areas. Do not let product dry on skin.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Keep at rest.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Effects

In case of skin contact

Causes severe burns. May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam

Unsuitable extinguishing media

Water spray jet

5.2 Special hazards arising from the substance or mixture

Burning produces heavy smoke. Use suitable breathing apparatus.

Hazardous combustion products

Carbon monoxide

5.3 Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Do not breathe gas/fumes/vapor/spray. Remove all sources of ignition. Provide adequate ventilation. Remove persons to safety. Use personal protection equipment. See protective measures under point 7 and 8.

For emergency responders

Do not breathe gas/fumes/vapor/spray. Use personal protection equipment. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Ensure waste is collected and contained.

6.3 Methods and material for containment and cleaning up

For containment

Ensure waste is collected and contained.

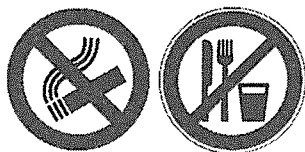
For cleaning up

Clean contaminated articles and floor according to the environmental legislation. Clean with detergents. Avoid solvent cleaners. Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

None

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. It is recommended to design all work processes always so that the following is excluded: Inhalation of vapors or spray/mists Skin contact Eye contact Do not breathe gas/fumes/vapor/spray. When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8). Never use pressure to empty container. Use only in well-ventilated areas.

Measures to prevent fire

Keep away from sources of ignition. - No smoking.

Environmental precautions

Do not allow to enter into surface water or drains.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Only use containers specifically approved for the substance/product. Keep/Store only in original container. Keep container tightly closed.

Hints on joint storage

Keep away from:

Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place. Store in a place accessible by authorized persons only. Handle and open container with care.

7.3 Specific end use(s)

Observe instructions for use. The regulations of the national employment safety and employment protection commission about the handling for polyurethane/epoxy have to be observed.

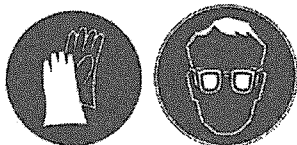
SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls

Personal protection equipment



Eye/face protection

Suitable eye protection

Eye glasses with side protection

Skin protection

Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Wear cotton undermitten if possible. Suitable gloves type : Disposable gloves.

Suitable material : NBR (Nitrile rubber)

Required properties : liquid-tight.

Breakthrough time (maximum wearing time) : > 60 minutes

Thickness of the glove material : > 0.5 mm

Recommended glove articles : EN 374

Additional hand protection measures : Do not wear gloves near rotary machines and tools. Check leak tightness/impermeability prior to use. Wear cotton undermitten if possible. Use gloves only once. Take recovery periods for skin regeneration.

Remark : For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Observe the wear time limits as specified by the manufacturer. Breakthrough times and swelling properties of the material must be taken into consideration. In the case of wanting to use the gloves again, clean them before taking off and air them well. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Barrier creams are not substitutes for body protection.

Body protection

Remark : Body protection: not required.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus

Combination filtering device (EN 14387). Filtering device (DIN EN 147). Full-/half-/quarter-face masks (DIN EN 136/140). Filtering Half-face mask (DIN EN 149). Particle filter device (DIN EN 143). Filtering device (full mask or mouthpiece) with filter: A P

Additional measures for respiratory protection

Filter types:A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m³ (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.) Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the exposure limit. Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3

filter: up to a max. of 400 times the exposure limit.

Remark The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General health and safety measures

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Wash hands before breaks and after work. Immediately remove any contaminated clothing, shoes or stockings.

Occupational exposure controls

Product related measures to prevent exposure

Further information: see technical data sheet.

Instructional measures to prevent exposure

Further information: see technical data sheet.

Organizational measures to prevent exposure

Further information: see technical data sheet.

Technical measures to prevent exposure

Technical measures and the application of suitable work processes have priority over personal protection equipment.

See section 7. No additional measures necessary.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Paste
Colour : grey
Odour : characteristic

Appearance

Colour : greyish

Odour

Amines

Safety relevant basis data

Melting point/melting range :		not applicable
Initial boiling point and boiling range :	(1013 hPa)	No data available
Decomposition temperature :		No data available
Flash point :	>	150 °C DIN 53213-1
Ignition temperature :		No data available
Evaporation rate :	<	1
Flammable gases :		Not applicable.
Flammable solids :		Not applicable.
Oxidising properties.		No data available.
Lower explosion limit :		No data available
Upper explosion limit :		No data available
Explosive properties :		No data available.
Vapour pressure :	(50 °C)	< 1000 hPa
Relative vapour density :		No data available
Relative density :	(20 °C)	approx. 1,18 g/cm3 DIN 53217
Water solubility :	(20 °C)	insoluble
Partition coefficient n-octanol/water :		No data available
pH :		No data available
Viscosity :	(20 °C)	not applicable
Cinematic viscosity :	(40 °C)	No data available
Odour threshold :		No data available

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Ignition hazard.

10.5 Incompatible materials

Exothermic reaction with: Amines.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Acute effects

Acute oral toxicity

Parameter : LC50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)

Exposure route : Oral

Species : Rat

Effective dose : > 3000 mg/kg

Parameter : LD50 (BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. :9003-36-5)

Exposure route : Oral

Species : Rat

Effective dose : >2000 mg/kg

Acute dermal toxicity

Parameter : LC50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)

Exposure route : Dermal

Species : Rat

Effective dose : >2000 mg/kg

Parameter : LD50 (BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. :9003-36-5)

Exposure route : Dermal

Species : Rat

Effective dose : > 2000 mg/kg

Parameter : LC50 (1,6 HEXANDIOL DIGLYCIDYLETHER ; CAS No. : 16096-31-4)

Exposure route : Dermal

Species : Rat

Effective dose : > 2000 mg/kg

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

CORDOBOND
EPOXY SYSTEMS

Trade name : Cordobond Standard - Component A

Revision date : 10.05.2017

Print date : 10-05-2017

Version (Revision) : 8.1.0 (8.0.0)

Irritant and corrosive effects

Primary irritation to the skin

Irritating to skin.

Irritation to eyes

Irritating to eyes.

Sensitisation

EUH205 - Contains epoxy constituents. May produce an allergic reaction. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. Risk of serious damage to eyes. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

In case of skin contact

Parameter : Skin sensitisation (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)

Species : Guinea pig

Effective dose : 50 %

Result : Strong sensitising.

Method : OECD 406

Parameter : Skin sensitisation (BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5)

Species : Guinea pig

Effective dose : 50 %

Result : Sensitising.

Method : OECD 406

May cause an allergic skin reaction.

Practical experience/human evidence

Causes skin irritation. Causes serious eye irritation.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Aquatic toxicity

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I. Toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

Acute (short-term) fish toxicity

Parameter : LC50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)

Species : Fish

Effective dose : 1,3 mg/l

Exposure time : 96 h

Method : OECD 203

Parameter : Acute (short-term) fish toxicity (BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5)

Species : Acute (short-term) fish toxicity

Effective dose : 2,54 mg/l

Exposure time : 96 h

Sediment toxicity

Toxicity to soil macroorganisms

Acute earthworm toxicity

Chronical earthworm toxicity (reproduction)

Long-term toxicity of organisms living in the sediment

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Cordobond Standard - Component A

Revision date : 10.05.2017

Print date : 10-05-2017

CORDOBOND
EPOXY SYSTEMS

Version (Revision) : 8.1.0 (8.0.0)

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation in Water

Hydrolysis

Biodegradation

Parameter : Biodegradation (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)

Inoculum : Biodegradation

Effective dose : 12 %

Exposure time : 28

Evaluation : Not readily biodegradable (according to OECD criteria)

Method : OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C

Parameter : Biodegradation (BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5)

Inoculum : Biodegradation

Effective dose : 16 %

Exposure time : 28

Evaluation : Not readily biodegradable (according to OECD criteria)

Method : OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3). Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Do not allow to enter into surface water or drains.

Waste treatment options

Appropriate disposal / Product

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Cordobond Standard - Component A

Revision date : 10.05.2017

Print date : 10-05-2017

**CORDOBOND
EPOXY SYSTEMS**

Version (Revision) : 8.1.0 (8.0.0)

SECTION 14: Transport information

14.1 UN number

UN 3082

14.2 UN proper shipping name

Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) · BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700)

Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) · BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700)

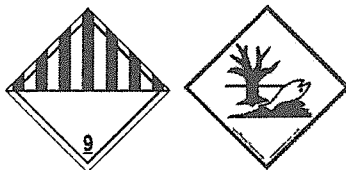
Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) · BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700)

14.3 Transport hazard class(es)

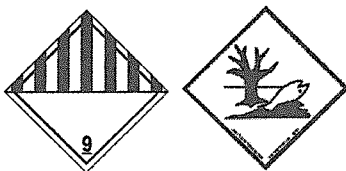
Land transport (ADR/RID)

Class(es) : 9
Classification code : M6
Hazard identification number (Kemler No.) : 90
Tunnel restriction code : E
Special provisions : LQ 5 I · E 1 · 375 · ADR : - (SP 375 <= 5 l/kg)
Hazard label(s) :



Sea transport (IMDG)

Class(es) : 9
Classification code : M6
Hazard identification number (Kemler No.) : 90
Tunnel restriction code : F-A / S-F
Special provisions : LQ 5 I · E 1 · IMDG : - (SP 2.10.2.7 <= 5 l/kg)
Hazard label(s) :



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

CORDOBOND
EPOXY SYSTEMS

Trade name : Cordobond Standard - Component A

Revision date : 10.05.2017

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Version (Revision) : 8.1.0 (8.0.0)

Air transport (ICAO-TI / IATA-DGR)

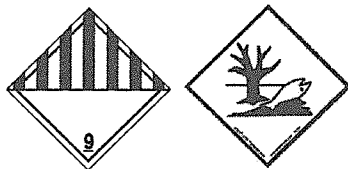
Class(es) :

9

Special provisions :

E 1 · A197 · IATA : - (SP A197 ≤ 5 l/kg)

Hazard label(s) :



14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : Yes

Sea transport (IMDG) : Yes (P)

Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

None

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Indication of changes

04. Effects · 11. Primary irritation to the skin · 11. Irritation to eyes · 11. Sensitisation - In case of skin contact · 12.

Aquatic toxicity

16.2 Abbreviations and acronyms

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road

ASTM = American Society of Testing and Materials (US)

CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)

DNEL = Derived No-Effect Level

DT50 = Time for 50% loss; half-life

EbC50 = Median effective concentration (biomass, e.g. of algae)

EC50 = Median effective concentration

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)

ErC50 = Median effective concentration (growth rate, e.g. of algae)

EWC = European Waste Catalogue

IATA = International Air Transport Association

IC50 = Concentration that produces 50% inhibition

IMDG = International Maritime Dangerous Goods Code

IMO = International Maritime Organization

LC50 = Concentration required to kill 50% of test organisms

LD50 = Dose required to kill 50% of test organisms

LEL = Lower Explosive Limit/Lower Explosion Limit

LOAEL = Lowest observed adverse effect level

MRL = Maximum Residue Limit

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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EPOXY SYSTEMS

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Revision date : 10.05.2017

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Version (Revision) : 8.1.0 (8.0.0)

NOAEL = No Observed Adverse Effect Level
NOEC = No observed effect concentration
NOEL = No Observable Effect Level
OEL = Occupational Exposure Limits
PBT = Persistent, Bioaccumulative or Toxic
PNEC = Previsible Non Effect Concentration
STEL = Short-Term Exposure Limit
TWA = Time-Weighted Average
vPvB = Very Persistent and Very Bioaccumulative

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC)

No 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

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.

16.6 Training advice

The regulations of the national employment safety and employment protection commission about the handling for polyurethane/epoxy have to be observed.

16.7 Additional information

This safety data sheet contains more than one ES in an integrated form. Contents of the exposure scenarios have been included into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Cordobond Standard - Component B

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CORDOBOND
EPOXY SYSTEMS

Version (Revision) : 12.1.0 (12.0.0)

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

1.1 Product identifier

Cordobond Standard - Component B (324000010B)

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

Solventfree two component glue based on epoxy

Relevant identified uses

In compliance with the conditions described in the annex to this safety data sheet. See section 16 for a comprehensive list of uses, for which an exposure scenario is provided as an annex.

Sector of uses [SU]

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Article categories [AC]

AC4 - Stone, plaster, cement, glass and ceramic articles

AC11 - Wood articles

Process categories [PROC]

PROC10 - Roller application or brushing

PROC19 - Hand-mixing with intimate contact and only PPE available

PROC21 - Low energy manipulation of substances bound in materials and/or articles

PROC24 - High (mechanical) energy work-up of substances bound in materials and/or articles

Environmental release categories [ERC]

ERC8c - Wide dispersive indoor use resulting in inclusion into or onto a matrix

ERC8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix

ERC10a - Wide dispersive outdoor use of long-life articles and materials with low release

ERC11a - Wide dispersive indoor use of long-life articles and materials with low release

Uses advised against

Do not use for private purposes (household).

Remark

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer) : Cordobond International BV

Street : Fultonstraat 48

Postal code/city : 3133 KH VLAARDINGEN

Telephone : +31(0)10 473 08 65

Information contact : info@cordobond.nl

1.4 Emergency telephone number

+31 30 274 88 88

European emergency number: 112. The Netherlands: NVIC (+31 30 274 88 88), intended exclusively for informing professional care workers in acute poisoning

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects. Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled. Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage. Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage. Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Cordobond Standard - Component B

Revision date : 10.05.2017

Print date : 10-05-2017

CORDOBOND
EPOXY SYSTEMS

Version (Revision) : 12.1.0 (12.0.0)

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6 1,6 HEXANDIOL DIGLYCIDYLETHER ; CAS No. : 16096-31-4 NONYLPHENOLE ; CAS No. : 25154-52-3

Hazard statements

H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P310	Immediately call a POISON CENTER.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P405	Store locked up.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

TRITHYLENETETRAMINE, PROPOXYLATED ; REACH registration No. : NLP ; EC No. : 500-055-5; CAS No. : 26950-63-0
Weight fraction : ≥ 50 - < 100 % Classification 1272/2008 [CLP] : Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 3 ; H412

3,6-DIAZAOCTANETHYLENEDIAMIN ; EC No. : 203-950-6; CAS No. : 112-24-3
Weight fraction : ≥ 10 - < 25 %
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H312 Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Cordobond Standard - Component B

Revision date : 10.05.2017

Print date : 10-05-2017

CORDOBOND
EPOXY SYSTEMS

Version (Revision) : 12.1.0 (12.0.0)

respiration. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

In case of skin contact

In case of skin reactions, consult a physician. Immediately remove any contaminated clothing, shoes or stockings. After contact with skin, wash immediately with plenty of water and soap. Do not use force or solvents to remove product incrustations from affected skin areas. Do not let product dry on skin.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Keep at rest.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Effects

In case of skin contact

Causes severe burns. May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam

Unsuitable extinguishing media

Water spray jet

5.2 Special hazards arising from the substance or mixture

Burning produces heavy smoke. Use suitable breathing apparatus.

Hazardous combustion products

Carbon monoxide

5.3 Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Do not breathe gas/fumes/vapor/spray. Remove all sources of ignition. Provide adequate ventilation. Remove persons to safety. Use personal protection equipment. See protective measures under point 7 and 8.

For emergency responders

Do not breathe gas/fumes/vapor/spray. Use personal protection equipment. See protective measures under point 7 and 8.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Cordobond Standard - Component B

Revision date : 10.05.2017

Print date : 10-05-2017

CORDOBOND
EPOXY SYSTEMS

Version (Revision) : 12.1.0 (12.0.0)

6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Ensure waste is collected and contained.

6.3 Methods and material for containment and cleaning up

For containment

Ensure waste is collected and contained.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation. Clean with detergents. Avoid solvent cleaners. Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

None

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. It is recommended to design all work processes always so that the following is excluded: Inhalation of vapors or spray/mists Skin contact Eye contact Do not breathe gas/fumes/vapor/spray. When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8). Never use pressure to empty container. Use only in well-ventilated areas.

Measures to prevent fire

Keep away from sources of ignition. - No smoking.

Environmental precautions

Do not allow to enter into surface water or drains.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Only use containers specifically approved for the substance/product. Keep/Store only in original container. Keep container tightly closed.

Hints on joint storage

Keep away from:

Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place. Store in a place accessible by authorized persons only. Handle and open container with care.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Cordobond Standard - Component B

Revision date : 10.05.2017

Print date : 10-05-2017

CORDOBOND
EPOXY SYSTEMS

Version (Revision) : 12.1.0 (12.0.0)

7.3 Specific end use(s)

Observe instructions for use. The regulations of the national employment safety and employment protection commission about the handling for polyurethane/epoxy have to be observed.

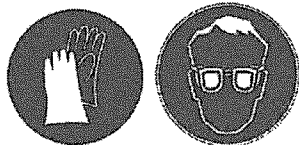
SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls

Personal protection equipment



Eye/face protection

Suitable eye protection

Eye glasses with side protection

Skin protection

Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Wear cotton undermitten if possible. Suitable gloves type : Disposable gloves.

Suitable material : NBR (Nitrile rubber)

Required properties : liquid-tight.

Breakthrough time (maximum wearing time) : > 60 minutes

Thickness of the glove material : > 0.5 mm

Recommended glove articles : EN 374

Additional hand protection measures : Do not wear gloves near rotary machines and tools. Check leak tightness/impermeability prior to use. Wear cotton undermitten if possible. Use gloves only once. Take recovery periods for skin regeneration.

Remark : For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Observe the wear time limits as specified by the manufacturer. Breakthrough times and swelling properties of the material must be taken into consideration. In the case of wanting to use the gloves again, clean them before taking off and air them well. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Barrier creams are not substitutes for body protection.

Body protection

Remark : Body protection: not required.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus

Combination filtering device (EN 14387). Filtering device (DIN EN 147). Full-/half-/quarter-face masks (DIN EN 136/140). Filtering Half-face mask (DIN EN 149). Particle filter device (DIN EN 143). Filtering device (full mask or mouthpiece) with filter: A P

Additional measures for respiratory protection

Filter types:A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m³ (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.) Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the exposure limit. Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

CORDOBOND
EPOXY SYSTEMS

Trade name : Cordobond Standard - Component B

Revision date : 10.05.2017

Print date : 10-05-2017

Version (Revision) : 12.1.0 (12.0.0)

filter: up to a max. of 400 times the exposure limit.

Remark The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General health and safety measures

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Wash hands before breaks and after work. Immediately remove any contaminated clothing, shoes or stockings.

Occupational exposure controls

Product related measures to prevent exposure

Further information: see technical data sheet.

Instructional measures to prevent exposure

Further information: see technical data sheet.

Organizational measures to prevent exposure

Further information: see technical data sheet.

Technical measures to prevent exposure

Technical measures and the application of suitable work processes have priority over personal protection equipment.

See section 7. No additional measures necessary.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Paste
Colour : grey
Odour : characteristic

Appearance

Colour : greyish

Odour

Amines

Safety relevant basis data

Melting point/melting range :			not applicable
Initial boiling point and boiling range :	(1013 hPa)		No data available
Decomposition temperature :			No data available
Flash point :		>	150 °C DIN 53213-1
Ignition temperature :			No data available
Evaporation rate :		<	1
Flammable gases :			Not applicable.
Flammable solids :			Not applicable.
Oxidising properties.			No data available.
Lower explosion limit :			No data available
Upper explosion limit :			No data available
Explosive properties :			No data available.
Vapour pressure :	(50 °C)	<	1000 hPa
Relative vapour density :			No data available
Relative density :	(20 °C)		approx. 1,18 g/cm ³ DIN 53217
Water solubility :	(20 °C)		insoluble
Partition coefficient n-octanol/water :			No data available
pH :			No data available
Viscosity :	(20 °C)		not applicable
Cinematic viscosity :	(40 °C)		No data available
Odour threshold :			No data available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Cordobond Standard - Component B

Revision date : 10.05.2017

Print date : 10-05-2017

CORDOBOND
EPOXY SYSTEMS

Version (Revision) : 12.1.0 (12.0.0)

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Ignition hazard.

10.5 Incompatible materials

Exothermic reaction with: Amines.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Acute effects

Acute inhalation toxicity

Harmful if inhaled.

Irritant and corrosive effects

Primary irritation to the skin

Causes severe burns.

Sensitisation

Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

In case of skin contact

May cause an allergic skin reaction.

Practical experience/human evidence

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. Causes burns. Causes serious eye damage.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Aquatic toxicity

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I. Toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

Sediment toxicity

Toxicity to soil macroorganisms

Acute earthworm toxicity

Chronical earthworm toxicity (reproduction)

Long-term toxicity of organisms living in the sediment

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Cordobond Standard - Component B

Revision date : 10.05.2017

Print date : 10-05-2017

CORDOBOND
EPOXY SYSTEMS

Version (Revision) : 12.1.0 (12.0.0)

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3). Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Do not allow to enter into surface water or drains.

Waste treatment options

Appropriate disposal / Product

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

UN 2735

14.2 UN proper shipping name

Land transport (ADR/RID)

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (NONYLPHENOLE · TETRAETHYLENEPENTAMINE)

Sea transport (IMDG)

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (NONYLPHENOLE · TETRAETHYLENEPENTAMINE)

Air transport (ICAO-TI / IATA-DGR)

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (NONYLPHENOLE · TETRAETHYLENEPENTAMINE)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Cordobond Standard - Component B

Revision date : 10.05.2017

Print date : 10-05-2017

CORDOBOND
EPOXY SYSTEMS

Version (Revision) : 12.1.0 (12.0.0)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 8
Classification code : C7
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E
Special provisions : LQ 5 I · E 1
Hazard label(s) :



Sea transport (IMDG)

Class(es) : 8
Classification code : C7
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E
Special provisions : LQ 5 I · E 1
Hazard label(s) :



Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8
Special provisions : E 1
Hazard label(s) :



14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Cordobond Standard - Component B

Revision date : 10.05.2017

Print date : 10-05-2017

CORDOBOND
EPOXY SYSTEMS

Version (Revision) : 12.1.0 (12.0.0)

SECTION 15: Regulatory information

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

None

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Indication of changes

04. Effects · 11. Acute inhalation toxicity · 11. Primary irritation to the skin · 11. Sensitisation - In case of skin contact 2. Aquatic toxicity

16.2 Abbreviations and acronyms

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road

ASTM = American Society of Testing and Materials (US)

CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)

DNEL = Derived No-Effect Level

DT50 = Time for 50% loss; half-life

EbC50 = Median effective concentration (biomass, e.g. of algae)

EC50 = Median effective concentration

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)

Erc50 = Median effective concentration (growth rate, e.g. of algae)

EWC = European Waste Catalogue

IATA = International Air Transport Association

IC50 = Concentration that produces 50% inhibition

IMDG = International Maritime Dangerous Goods Code

IMO = International Maritime Organization

LC50 = Concentration required to kill 50% of test organisms

LD50 = Dose required to kill 50% of test organisms

LEL = Lower Explosive Limit/Lower Explosion Limit

LOAEL = Lowest observed adverse effect level

MRL = Maximum Residue Limit

NOAEL = No Observed Adverse Effect Level

NOEC = No observed effect concentration

NOEL = No Observable Effect Level

OEL = Occupational Exposure Limits

PBT = Persistent, Bioaccumulative or Toxic

PNEC = Previsable Non Effect Concentration

STEL = Short-Term Exposure Limit

TWA = Time-Weighted Average

vPvB = Very Persistent and Very Bioaccumulative

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC)

No 1272/2008 [CLP]

No information available.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Cordobond Standard - Component B

Revision date : 10.05.2017

Print date : 10-05-2017

CORDOBOND
EPOXY SYSTEMS

Version (Revision) : 12.1.0 (12.0.0)

16.5 Relevant H- and EUH-phrases (Number and full text)

H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

The regulations of the national employment safety and employment protection commission about the handling for polyurethane/epoxy have to be observed.

16.7 Additional information

This safety data sheet contains more than one ES in an integrated form. Contents of the exposure scenarios have been included into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.