

Material Safety Data Sheet

according to Regulation (EC) 1907/2006



Product name : Cordobond Standard - Component A
Revision : 05.07.2007 **Version :** 2.0.0
Print date : 29-08-2007

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

Product name

Cordobond Standard - Component A (324000010A)

Use of the substance / preparation

Solventfree two component laminating resin based on epoxy

Manufacturer/Supplier

Cordobond International B.V.

Street/P.O.Box

Admiraal Trompstraat 13

Country code/Postal code/Town/City

3115 HK Schiedam

Telephone / Telefax

+31 (0)10-4737388 / +31 (0)10-4731006

Contact

D. Westhuis (e-mail: info@cordobond.nl)

Emergency information

+31 (0)30-2748888 - National Poisons Information Centre: only for the purpose of informing medical personnel in cases of accidental intoxications.

02. Hazards identification

Hazard designation

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · May cause sensitisation by skin contact. · Irritating to eyes and skin.

Classification : N ; R 51/53 · R 43 · Xi ; R 36/38

Additional information

This preparation may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

03. Composition/information on ingredients

Hazardous components

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

Percentage : 50 - 100 %

Classification : N ; R 51/53 R 43 Xi ; R 36/38

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

Percentage : 25 - 50 %

Classification : N ; R 51/53 R 43 Xi ; R 36/38

1,6 HEXANDIOL DIGLYCIDYLETHER ; EC-No. : 240-260-4; CAS-No. : 16096-31-4

Percentage : 10 - 25 %

Classification : R 43 R 52/53 Xi ; R 36/38

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

04. First-aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Seek medical advice after contact with this product. Never give anything by mouth to an unconscious person.

After inhalation

Take the casualty into the fresh air and keep warm. Keep at rest. Irregular breathing/no breathing: artificial respiration. Unconsciousness: lateral position - call a physician.

After skin contact

Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

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After ingestion

Contact a doctor immediately. Keep at rest. Do not induce vomiting.

05. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Waterjet.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Special protective equipment

Appropriate breathing apparatus may be required.

Additional information

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

06. Accidental release measures

Personal precautions

Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

07. Handling and storage

Information for safe handling

Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid contact with skin and eyes. Do not inhale the vapour. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws.

Requirements to be met by storerooms and containers

Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Further information about storage conditions

Store in accordance with local regulations. Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep away from ignition sources - No smoking.

Specific uses

For more information see the technical datasheet of this preparation.

08. Exposure controls/personal protection

Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

General protective and hygiene measures

Wash hands before breaks and after work.

Respiratory protection

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If workplace limits are exceeded, a gas mask approved for this purpose must be worn.

Hand protection

Use protective gloves. After washing hands replace lost skin fat by fat containing skin creams.

Eye protection

Use safety glasses.

Body protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

Environmental precautions

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

09. Physical and chemical properties

Image

Colour : Colourless.
Odour : Characteristic.

Relevant safety data

Physical state :			liquid		
Boiling point / range :	(1013 hPa)		no data available	°C	
Flash point :		>	150	°C	DIN 53213
Lower explosion limit :			no data available	% b.v.	
Upper explosion limit :			no data available	% b.v.	
Vapour pressure :	(50 °C)	<	1000	hPa	
Density :	(20 °C)	ca.	1,15	g/cm ³	DIN 53217
Solubility in water :	(20 °C)		insoluble	g/l	
pH value :			no data available		
Viscosity :	(20 °C)	ca.	25000	mPa.s	

10. Stability and reactivity

Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Experience on practice

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 and 15 for details.

Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. In case of contact with the product: danger of resorption through the skin, irritation of skin/mucous membranes. Eye contact: irritation.

Contains epoxy constituents with a molecular weight lower than 700. May produce an allergic reaction. Based on properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the preparation and exposure to spray mist and vapour should be avoided.

Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

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12. Ecological information

Additional ecological information

General ecological information

There are no data available on the preparation itself. This preparation has been assessed following the conventional method of the Dangerous Goods Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See sections 2 and 15 for details. Do not empty into waters or drains.

13. Disposal considerations

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

14. Transport information

Transport within users's premises: always transport in closed containers that are upright and secure. Ensure that persons that are transporting the product know what to do in case of an accident or spillage.

Land transport ADR/RID

Classification

Class : 9 **Kemlercode :** 90
Substance number : 3082 **Classification-Code :** M6
LQ 7 · Tunnel restriction code : E

Proper shipping name

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

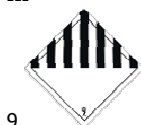
Hazardous components

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700)
· BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW<=700

Packaging

Packaging group : III

Label :



Maritime transport IMDG/GGVSea

Classification

IMDG-Code : 9 **EmS number :** F-A / S-F
UN number : 3082 **Marine Poll. :** -
LQ 5 I

Proper shipping name

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

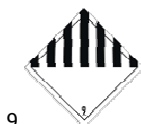
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· BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW<=700

Packaging

Packaging group : III

Label :



Air transport ICAO-TI and IATA-DGR

Classification

Class : 9
UN number : 3082

Proper shipping name

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

Hazardous components

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700)
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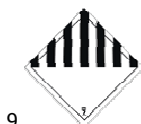


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Packaging

Packaging group : III

Label :



15. Regulatory information

Classification according to EC directives

Danger symbol and danger designation



Xi ; Irritant



N ; Dangerous for the environment

Hazard-determining components of 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

1,6 HEXANDIOL DIGLYCIDYLETHER ; CAS-No. : 16096-31-4

R-phrases

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
43 May cause sensitisation by skin contact.
36/38 Irritating to eyes and skin.

S-phrases

61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
37 Wear suitable gloves.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
24/25 Avoid contact with skin and eyes.

Special designation for certain preparations

92 Contains epoxy constituents. See information supplied by the manufacturer.

National regulatory information

Other regulations

Industrial usage:

The information contained in this safety datasheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

International regulatory information

EU limit value for this product (cat. A/j): 550 g/l (2007). This product contains max: 0 g/l

16. Other information

Further information

The details in this material safety data sheet satisfy national and EC legislation. We have no knowledge or control over the user's working conditions however. The product may not be used for any purpose other than that specified in chapter 1 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

Relevant changes

03. Hazardous components

R-Phrases of components

36/38 Irritating to eyes and skin.
43 May cause sensitisation by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.