

Material Safety Data Sheet

according to 91/155/EEC

Product name : MASTERTOP BC 370, COMP A (CONIPOX 270)
270_A
Revision : 07.07.2006 **Version :** 7.0.0
Print date : 24.07.2006

01. Identification of substance, preparation and company

Product name

MASTERTOP BC 370, COMP A (CONIPOX 270) (280-2054-7032) (270_A)

Manufacturer/Supplier

BASF Construction Chemicals
(Schweiz) AG Division CONICA Technik

Street/P.O.Box

Industriestrasse 26 /

Country code/Postal code/Town/City

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Emergency information

Schweizer Toxzentrum +0041-1-2515151 (CH)
Centre Anti - Poison +0033 01 40 37 04 04 (FR)
Toxikologické informa-ní st-edisko +00420 224 919 293 (CZ)
Myrkytystietokeskus puh.(suora) +358 (0) 9 471 977 (vaihde) 094711 (FIN)

02. Composition/information on ingredients

Chemical characterization

Modified epoxide resin

Hazardous components

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

Percentage : 25 - 50 %
Classification : N ; R 51/53 R 43 Xi ; R 36/38

REACTION PRODUCT: BISPHENOL F-EPICHLORHYDRIN MG < 700 ; CAS-No. : 9003-36-5

Percentage : 10 - 25 %
Classification : N ; R 51/53 R 43 Xi ; R 36/38

BENZYL ALCOHOL ; EC-No. : 202-859-9 ; CAS-No. : 100-51-6

Percentage : 2,5 - 10 %
Classification : Xn ; R 20/22

2-METHOXY-1-METHYLETHYL ACETATE ; EC-No. : 203-603-9 ; CAS-No. : 108-65-6

Percentage : 0,5 - 2,5 %
Classification : R 10 Xi ; R 36

AROMATIC HYDROCARBON ; EC-No. : 265-199-0 ; CAS-No. : 64742-95-6

Percentage : 0,1 - 0,5 %
Classification : R 10 N ; R 51/53 Xn ; R 20 Xn ; R 65

1,2,4-TRIMETHYLBENZENE ; EC-No. : 202-436-9 ; CAS-No. : 95-63-6

Percentage : 0,1 - 0,5 %
Classification : R 10 N ; R 51/53 Xn ; R 20 Xi ; R 36/37/38

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OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVIS ; EC-No. : 271-846-8 ; CAS-No. : 68609-97-2

Percentage : 0,1 - 0,5 %

Classification : R 43 Xi ; R 38

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

03. 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

The product sensitizes the skin. It is skin irritating as well and repeated contact can increase this effect. The product is water polluting.

04. First-aid measures

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.

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.

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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

Avoid contact with skin and eyes. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws.

Information about protection against explosions and fires

No particular measures required.

Requirements to be met by storerooms and containers

Containers should be kept dry and sealed. 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

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight.

Storage class (VCI) : 10

08. Exposure controls and 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.

Components with critical values that require monitoring at the workplace (exposure limits)

2-METHOXY-1-METHYLETHYL ACETATE ; CAS-No. : 108-65-6

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)

Value : 50 ppm / 270 mg/m³

Category : 1(I)

Remarks : Y

Version date : 01.01.2006

Specification : Short term exposure limit (EC)

Value : 100 ppm / 550 mg/m³

Remarks : H

Version date : 08.06.2000

Specification : threshold limit value (EC)

Value : 50 ppm / 275 mg/m³

Remarks : H

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Version date : 08.06.2000
1,2,4-TRIMETHYLBENZENE ; CAS-No. : 95-63-6
Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 20 ppm / 100 mg/m³
Category : 2(II)
Remarks : Y
Version date : 01.01.2006

Personal protective equipment

General protective and hygiene measures

Wash hands before breaks and after work.

Respiratory protection

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

Hand protection

Butylrubber >= 0,5mm >= 480 min. After washing hands replace lost skin fat by fat containing skin creams. By using other gloves with a lower endurance, change them more often.

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.

09. Physical and chemical properties

Image

Form : Liquid.
Colour : Coloured.
Odour : Characteristic.

Relevant safety data

Boiling point / range :	(1013 hPa)		no data available	
Decomposition point / range :		>	200 °C	
Flash point :		>	100 °C	DIN 53213
Vapour pressure :	(50 °C)		no data available	
Density :	(20 °C)	ca.	1,6 g/cm ³	
Solvent-separation test :	(20 °C)		inapplicable	
Viscosity :	(20 °C)		5000 mPa.s	

10. Stability and reactivity

Conditions to avoid

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

Materials to avoid

Be careful of exothermic reactions with amines.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide.

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smoke, oxides of nitrogen.

11. Toxicological information

Experience on practice

In case of contact with the product: danger of resorption through the skin, irritation of skin/mucous membranes. Eye contact: irritation. Skin contact: frequent and prolonged skin contact may cause irritation and skin inflammation. Susceptible people may suffer allergic reactions.

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).

12. Ecological information

Details on elimination (persistence / degradability)

Biological degradation / elimination

Specification : Biodegradadtion (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) ; CAS-No. : 25068-38-6)
Findings : not readily biodegradable.
Specification : Biodegradadtion (2-METHOXY-1-METHYLETHYL ACETATE ; CAS-No. : 108-65-6)
Value / dosage : > 70 %
Testing method : OECD 302B

Ecotoxicological effects

Aquatic toxicity

Specification : Toxicity to fish (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) ; CAS-No. : 25068-38-6)
Parameters : LC 50
Species: Trout
Value / dosage : 1,5 mg/l
Test-period : 96 h
Specification : Toxicity to daphnia (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) ; CAS-No. : 25068-38-6)
Parameters : EC50
Species: Daphnia magna Straus 1820
Value / dosage : 3,6 mg/l
Test-period : 24 h
Specification : Toxicity to fish (2-METHOXY-1-METHYLETHYL ACETATE ; CAS-No. : 108-65-6)
Parameters : LC 50
Species: Trout
Value / dosage : 100 - 180 mg/l
Test-period : 96 h
Specification : Toxicity to daphnia (2-METHOXY-1-METHYLETHYL ACETATE ; CAS-No. : 108-65-6)
Parameters : EC50
Species: Daphnia magna Straus 1820
Value / dosage : > 500 mg/l
Test-period : 48 h
Specification : Toxicity to daphnia (1,2,4-TRIMETHYLBENZENE ; CAS-No. : 95-63-6)
Parameters : EC50
Species: Daphnia magna Straus 1820

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Value / dosage : 3600 µg/l
Test-period : 48 h

Additional ecological information

General ecological information

Do not empty into waters or drains. The product is difficult to biologically degrade.

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.

Product

Waste key

According to the actual waste legislation it is not possible for us to give the waste code because it depends on the application of the product that we do not know here. If you need some help to determine this code, please ask your executives. Disposal Code according to European Waste Catalog (EWC) please specify according to the use of product, e.g.: 080111* Waste from production, formulation, sales and application of paints and varnishes. Old paints and varnishes, containing organic solvents or some other dangerous product.

14. Transport information

Land transport ADR/RID

Classification

Class : 9 **Kemlercode :** 90
Substance number : 3082 **Classification-Code :** M6

LQ 7

Proper shipping name

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

Hazardous components

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

Packaging

Packaging group : III
Label : 9

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.

Hazardous components

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

Packaging

Packaging group : III
Label : 9

Air transport ICAO-TI and IATA-DGR

Classification

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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)

Packaging
Packaging group : III
Label : 9

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

REACTION PRODUCT: BISPHENOL F-EPICHLORHYDRIN MG < 700 ; CAS-No. : 9003-36-5

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

29/35 Do not empty into drains; dispose of this material and its container in a safe way.
61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
2 Keep out of the reach of children.
37 Wear suitable gloves.
46 If swallowed, seek medical advice immediately and show this container or label.
64 If swallowed, rinse mouth with water (only if the person is conscious).
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

Germany: Safety Instruction Code of German occupational safety and health organisation. Berufsgenossenschaften der Bauwirtschaft: GISCODE RE 1

Regulation on inflammable liquids (VbF)

VbF-Class : Not dangerous according to VbF

Emission control act ("TA-Luft")

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Sum organic substances class III : < 5 %
Sum cancerogen substances class III : < 1 %

Water pollution classification

Class : 2 according VwVwS

Other regulations

Refer as well to German safety guideline (UVV) "Handling of coating materials" (HVBG, VBG 23) and German guideline "Polyester- and Epoxi-Resins" (BG-Chemie, M 023, ZH 1/80)
Switzerland: Please refer to the guidelines of SUVA and EKAS. e.g.: "Guidline for preventing accidents when using two component resins" (SUVA 1854)

16. Other information

Restrictions on use recommended by the manufacturer

Coating material - use only according to the Technical Information of the product.

Further information

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 16 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

Relevant changes

08. Components with critical values that require monitoring at the workplace (exposure limits) · 14. Proper shipping name (ADR) · 14. Proper shipping name (IMDG) · 14. Proper shipping name (ICAO) · 15. S-phrases

R-Phrases of components

10	Flammable.
20	Harmful by inhalation.
20/22	Harmful by inhalation and if swallowed.
36	Irritating to eyes.
36/37/38	Irritating to eyes, respiratory system and skin.
36/38	Irritating to eyes and skin.
38	Irritating to skin.
43	May cause sensitisation by skin contact.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.

Department issuing data sheet

BASF Construction Chemicals Bussiness Line Performance Flooring.

Contact

R. Burgos / C. Schmidt

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.
