

Material Safety Data Sheet

according to 91/155/EEC

Product name : MASTERTOP POLYKIT X1
Revision : 10.12.2004 **Version :** 1.0.0
Print date : 16.02.2005

01. Identification of substance, preparation and company

Product name:

MASTERTOP POLYKIT X1 (ALANDPOLYKX1)

Manufacturer/Supplier

Degussa Bautechnik GmbH

Street/P.O.Box

An der Mühle 1 /

Country code/Postal code/Town/City

D-15345 Altlandsberg

Telephone / Telefax

0049-(0)33438-50-0 / 0049-(0)-3343850135

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)
Toxicology Information Centre +358 9 471 977 (FIN)

02. Composition/information on ingredients

Chemical characterization

Modified epoxide resin

Hazardous components

REACTION PRODUCT:BISPHENOL A-(EPICHLORHYDRIN) ; CAS-No. : 25068-38-6

Percentage : 25 - 50 %

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

GLYCIDYLETHER (C12-C14) ; EC-No. : 271-846-8 ; CAS-No. : 68609-97-2

Percentage : 2,5 - 10 %

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

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

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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.

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.

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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 vapours or particels 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

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

Hand protection

Butylrubber $\geq 0,5\text{mm}$ ≥ 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 : Poor, characteristic.

Relevant safety data

Boiling point / range :	(1013 hPa)	126	°C	
Flash point :		101	°C	DIN 53213
Vapour pressure :	(50 °C)	no data available		
Density :	(20 °C)	1,86	g/cm ³	
Solvent-separation test :	(20 °C)	no data available		
Solubility in water :	(20 °C)	insoluble		
Viscosity :	(20 °C)	ca.	8000	mPa.s

10. Stability and reactivity

Conditions to avoid

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

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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, 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 : Biodegradadion (REACTION PRODUCT:BISPHENOL A-(EPICHLORHYDRIN) ; CAS-No. : 25068-38-6)
Findings : not readily biodegradable.

Ecotoxic effects

Aquatic toxicity

Specification : Toxicity to fish (REACTION PRODUCT:BISPHENOL A-(EPICHLORHYDRIN) ; 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) ; 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 (BENZYL ALCOHOL ; CAS-No. : 100-51-6)
Parameters : LC 50
Pimephales promelas
Value / dosage : 460 mg/l
Test-period : 96 h

Specification : Toxicity to fish (BENZYL ALCOHOL ; CAS-No. : 100-51-6)
Parameters : LC 50
Lepomis macrochirus
Value / dosage : 27 mg/l
Test-period : 96 h

Specification : Toxicity to daphnia (BENZYL ALCOHOL ; CAS-No. : 100-51-6)
Parameters : EC50

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	Species: Daphnia magna Straus 1820
Value / dosage :	400 mg/l
Test-period :	24 h
Specification :	Toxicity to daphnia (GLYCIDYLETHER (C12-C14) ; CAS-No. : 68609-97-2)
Parameters :	EC50
	Species: Daphnia magna Straus 1820
Value / dosage :	1 - 10 mg/l
Test-period :	48 h
Specification :	Toxicity to algae (BENZYL ALCOHOL ; CAS-No. : 100-51-6)
Parameters :	EC50
	Scenedesmus subspicatus
Value / dosage :	640 mg/l
Test-period :	96 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

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.
Switzerland: Disposal code (VVS): 1620 Waste from paints, varnishes and adhesives with organic phase or solvent

14. Transport information

Land transport ADR/RID

Classification

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

LQ28

Proper shipping name

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

Hazardous components

REACTION PRODUCT:BISPHENOL A-(EPICHLORHYDRIN)

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

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Hazardous components

REACTION PRODUCT:BISPHENOL A-(EPICHLORHYDRIN)

Packaging

Packaging group : III
Label : 9

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)

Packaging

Packaging group : III
Label : 9

15. Regulatory information

Classification according to EEC directives

Danger symbol and danger designation



Xi ; Irritant



N ; Dangerous for the environment

Hazard-determining components of labelling

REACTION PRODUCT:BISPHENOL A-(EPICHLORHYDRIN) ; CAS-No. : 25068-38-6

GLYCIDYLETHER (C12-C14) ; CAS-No. : 68609-97-2

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.
2 Keep out of the reach of children
35 This material and its container must be disposed of in a safe way
36/37 Wear suitable protective clothing and 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

