

Material Safety Data Sheet

Stepethane30 Sealer Part A

Classified as hazardous according to criteria of NOHSC.

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Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME: Stepethane30 Sealer
OTHER NAMES: 2 Pack Sealer
MANUFACTURER'S PRODUCT CODE: F2405/27/3
PACKAGING GROUP: 111
METHOD OF APPLICATION: Roller, brush or spray
RECOMMENDED USE: 2 Pack coating for sealing various surfaces.

UN No.: 1866
DANGEROUS GOODS CLASS: 3
SUB RISK: None Allocated
HAZCHEM: 3Y
POISONS SCHEDULE: None allocated

Section 2: HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: Classified as hazardous according to criteria of NOHSC
RISK PHRASES: Irritating to eyes and skin. May cause sensitization by skin contact. .
SAFETY PHRASES: Do not breathe gas, fumes, vapour or spray.
Avoid contact with skin and eyes
Wear suitable protective clothing, gloves and eye/face protection.
Avoid release to the environment.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

polyacrylate containing hydroxyl groups
approx. 50 % in n-butyl acetate/xylene 1:1
n-butyl acetate
weight % approx. 25
CAS No.: 123-86-4 Index No.: 607-025-00-1
EEC No.: 204-658-1
Classification: R10; R66; R67
xylene isomers mixture
weight % approx. 20
CAS No.: 1330-20-7 Index No.: 601-022-00-9
EEC No.: 215-535-7
Classification: R10; Xn R20/21; Xi R38
Specific threshold concentration
Xn ; R 20/21 = from 12,5 %
Xn ; R 20/21-38 = from 20 %
ethylbenzene
weight %: approx. 5
CAS No.: 100-41-4 Index No.: 601-023-00-4
EEC No.: 202-849-4
Classification: F R11; Xn R20
Specific threshold concentration
Xn ; R 20 = from 25 %
Methacrylic acid methyl ester (methyl methacrylate)
weight %: < 2
CAS No.: 80-62-6 Index No.: 607-035-00-6
EEC No.: 201-297-1
Classification: F R11; Xi R37/38; R43

Section 4: First Aid Measures

Inhalation If aerosol or vapour is inhaled in high concentrations: The patient should be taken out into the fresh air, kept warm and allowed to rest. If the

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Ingestion patient has breathing difficulties, medical attention must be obtained
Rinse mouth with water. Do not induce vomiting. Drink two glasses of water and seek medical attention.

Skin contact: Remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

Eye Contact: Immediately wash eyes with running water, holding eyelids open. If irritation occurs, seek medical attention.

**Medical Attention
And Special Treatment** Treat symptomatically.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media : Extinguishing Media Carbon dioxide. Dry chemical fire extinguishers. Foam.
Hazards from combustion products: Specific Hazards Non-flammable product. Hazardous Combustion Products Under conditions of incomplete combustion or pyrolysis, carbon oxides may be evolved. The thermal decomposition products therefore should be treated as potentially hazardous substances and appropriate precautions should be taken.

Precautions for fire fighters and Special protective equipment: Wear positive-pressure self-contained breathing apparatus and protective fire- fighting clothing (includes fire-fighting helmet, coat, trousers, boots and gloves).

Section 6: Accidental Release Measures

Emergency Procedures : If contamination of sewers or waterways has occurred, advise local emergency services.

Methods and materials for

Containment and clean up: Contain liquid to prevent contamination of soil, surface water or ground water. Flushing and wash waters must be contained and prevented from entering into soil, waterways and ground water. Large spills: Contain with dike.

CLEAN UP: Cover and soak up with a suitable absorbent material, such as: Sand. Collect in suitable and properly labelled containers.

Section 7: Handling and Storage

Conditions for safe storage: Store in a cool place out of direct sunlight. Keep containers closed when not in use. Check regularly for leaks.

Precautions for safe handling : Keep out of reach of children. Avoid eye contact or prolonged skin contact.

Section 8: Exposure Controls, Personal Protection

National Exposure Standards: NOHSC 1003(1995) Exposure Standard:
xylene isomer mixture: None Allocated.
ethyl benzene: 100ppm(434mg/m³)TWA, 125ppm(543mg/m³)STEL
n-butyl acetate : 150ppm(713mg/m³)TWA, 200ppm(950mg/m³)STEL

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Methacrylic acid methyl ester : 50ppm(208mg/m³)TWA, 100ppm(416mg/m³)STEL

in accordance with the EU Directives (gb) DD

Protection of workers -

Threshold value in air defined by TRGS 900 (MAK value):

n-butyl acetate 100 ml/m³ (ppm) corresp. to 480 mg/m³

CAS No.: 123-86-4 (eight hours average value)

maximum limit of excess factor 1

Remarks: 37, DFG

Protection of workers -

Threshold value in air defined by TRGS 900 (MAK value):

xylene (all isomers) 100 ml/m³ (ppm) corresp. to 440 mg/m³

CAS No.: 1330-20-7 (eight hours average value)

maximum limit of excess factor 2(II)

Remark: H (= can be resorbed through the skin), DFG

Protection of workers -

Threshold value in air defined by TRGS 900 (MAK value):

ethylbenzene 100 ml/m³ (ppm) corresp. to 440 mg/m³

CAS No.: 100-41-4 (eight hours average value)

maximum limit of excess factor 2(I)

Remark: H (= can be resorbed through the skin), EU

Protection of workers -

Threshold value in air defined by TRGS 900 (MAK value):

methylacrylic acid methyl ester

(methyl methacrylate) 50 ml/m³ (ppm) corresp. to 210 mg/m³

CAS No.: 80-62-6 (eight hours average value)

maximum limit of excess factor 2(I)

Remark: Y, DFG

Hand protection:

Engineering Controls: Provide adequate ventilation. If using indoors, keep windows and doors open during use. Keep containers closed when not in use.

Personal Protective Equipment: Conditionally suitable materials for protective gloves;

DIN EN 374-3:

fluorinated rubber - FKM: thickness: >=0,4 mm;

Breakthrough time: "Only suitable as splash protection."

Only suitable for brief exposure. In the event of contamination, change protective gloves immediately.

Eye protection: Wear eye/face protection.

Body protection: Wear suitable protective clothing.

Protection and hygienic measures: Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at end of work. Keep working clothes separate. Change contaminated or soaked clothing.

Section 9: Physical and Chemical Properties

Form: liquid

Colour: yellowish

Odour: smell of solvent

Initial boiling point: approx. 127 °C (n-butyl acetate)

Density: approx. 1,01 g/cm³ at 20 °C DIN 53217

Vapour pressure: approx. 12 mbar at 20 °C (n-butyl acetate)

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Viscosity: approx. 4500 mPa·s at 23 °C DIN EN ISO 3219/A.3
> 90 s at 23 °C
according to AFAM 2008/1050303-98 (nozzle: 4 mm)
Solubility in water: insoluble as resin
n-butyl acetate approx. 10 g/l at 20 °C
Flash point: approx. 23 °C DIN 53213
Ignition temperature: approx. 370 °C (n-butyl acetate) DIN 51794
Explosive limits:
xylene lower: 1.0 % by vol. upper: 8.0 % by vol.
n-butyl acetate lower: 1,2 % by vol. upper: 7,5 % by vol.

Remarks:

The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.

Section 10: Stability and Reactivity

Chemical stability: Stable under recommended storage.

Conditions to Avoid: Avoid contact with foodstuffs. Avoid contact with oxidising materials, acids and bases.
Avoid unintended contact with amines.

Incompatible materials: Incompatible with oxidising agents.

Hazardous decomposition products: Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide and water.

Hazardous reactions: Will not occur by itself. Mass addition of an aliphatic amine will cause irreversible polymerization with some heat build up.

Section 11: Toxicological Information

Toxicological tests carried out on another from supplied

Acute toxicity:

LD50 oral, rat: more than 5000 mg/kg

Skin and mucous membrane compatibility, rabbit:

Skin 24 hours exposure - slightly irritant

Eyes - slightly irritant

Special properties / effects of xylene and ethylbenzene:

Risk of cutaneous absorption.

Aromatic hydrocarbons, such as xylene, irritate the skin and mucous membranes and are narcotic if inhaled in high concentrations.

Section 12: Ecological Information

Do not allow to escape into waters, wastewater or soil.

Biodegradability: 38 %, i.e. not readily degradable.

Degradation rate in 28 days.

(OECD Guideline for Testing of Chemicals, No. 301 F)

Acute fish toxicity: LC50 = 201 mg/l

Test species: Brachydanio rerio (Zebra barbel) Duration of test: 96 h

(OECD Guideline for Testing of Chemicals, No. 203)

Acute bacterial toxicity: EC50 = 7433 mg/l

(OECD Guideline for Testing of Chemicals, No. 209)

As the compound is not readily biodegradable, long retention times in water are to be expected.

On the basis of the ecotoxicological data, the product can be classified as non-hazardous to fish.

Because of the low bacterial toxicity, there is no risk of an adverse effect on the performance of biological waste water treatment plants.

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Section 13: Disposal Considerations

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.
For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and and environmental regulations.

Section 14: Transport Information

Dangerous Good according to ADG Code (6th Edition) Hazchem: 3[Y]
GGVSE: 3 UN: 1866 PG: III SP: 640E
RID/ADR: 3 UN: 1866 PG: III SP: 640E
Warning sign: Hazard no. 30 UN No.: 1866
ADNR: 3 UN: 1866 PG: III SP: 640E
GGVSee/IMDG Code: 3 UN: 1866 PG: III MPO: NO
ICAO-TI/IATA-DGR: 3 UN: 1866 PG: III
Declaration for land shipment: HARZLOESUNG
Declaration for sea shipment: RESIN SOLUTION
Declaration for shipment by air: RESIN SOLUTION
Special regulation for 'viscous substances' applicable
Other information:
Combustible, flash point +23 °C. Keep separated from foodstuffs.

Section 15: Regulatory Information

Not a scheduled poison under SUSDP 20.
Labelling in accordance with the EEC directives:
Symbol: Xn, hazard description: harmful
Contains: xylene
methyl methacrylate
R 10: Flammable.
R 20/21: Harmful by inhalation and in contact with skin.
R 38: Irritating to skin.
R 43: May cause sensitization by skin contact.
S 24: Avoid contact with skin.
S 37: Wear suitable gloves.
S 51: Use only in well-ventilated areas.
TRGS 905-classification:
Ethylbenzene (CAS No.: 100-41-4) is not classified as a carcinogenic substance in accordance with TRGS 905 in Germany, nor is it included in the EU substance list. It is classified as a Category 3A carcinogenic substance in accordance with the list of MAK and BAT values from the German Research Commission.
Any existing national regulations on the handling of solvents must be observed.

Section 16: Other Information

All components of this product are listed in the European Inventory of Existing Commercial Chemical Substances (EINECS) under the provisions laid down in the corresponding EEC-Directive.
Text of all R phrases referred to in sections 2 and 3:
R 10: Flammable.
R 11: Highly flammable.
R 20: Harmful by inhalation.
R 20/21: Harmful by inhalation and in contact with skin.
R 37/38: Irritating to respiratory system and skin.
R 38: Irritating to skin.
R 43: May cause sensitization by skin contact.
R 66: Repeated exposure may cause skin dryness or cracking.

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R 67: Vapours may cause drowsines and dizziness

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END OF MSDS