



Material Safety Data Sheet (MSDS)

Page 1 of 11

SOUND MOLD EP4423 HARDENER

1. Company and product information

Trade name: SOUND MOLD EP4423 HARDENER

Company information:

SOUND BUILD CARE PVT.,LTD.

Address: UNIT NO 13, SWASTIK CHAMBERS, CST ROAD, CHEMBUR, MUMBAI 400 071

Tel: 91 377 66 817

2. Hazards identification

Hazard classification

Acute toxicity - Category 4 - Oral

Skin corrosion - Category 1B

Serious eye damage - Category 1

Skin sensitisation - Sub-category 1A

Acute hazard to water environment: Category 3

Chronic hazard to water environment: Category 3

Label elements

Hazard pictograms



Signal word: **DANGER!**

Hazards statements

H314 Causes severe skin burns and damage

H315 Causes skin irritation.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H402 Harmful to aquatic life

H412 May cause long lasting harmful effects to aquatic life

Precautionary statements (Prevention)

P260 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

REGD. Off: UNIT NO. 13 , SWASTIK CHAMBERS. C S T ROAD, CHEMBUR , MUMBAI – 400 071

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Material Safety Data Sheet (MSDS)

Page 2 of 11

SOUND MOLD EP4423 HARDENER

- P270 Do not eat, drink or smoke when using this product
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear eye protection/ face protection and Wear protective gloves.
P273 Avoid release to the environment.

Precautionary statements (Response)

- P301+P312+P330 IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell. Rinse mouth.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+P341+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor / physician.
P333+P313 IF skin irritation or rash occurs: Get medical advice / attention.
P363 Wash contaminated clothing before reuse.

Precautionary statements (Storage)

- P405+P403 Store locked up and Store in a well-ventilated place

Precautionary statements (Disposal)

- P-501 Dispose of contents / container to an approved waste disposal plant

Other hazards

No data available

3. Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

Polyoxyethylene amine	CAS No.: 39423-51-3	20%
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Material Safety Data Sheet (MSDS)

Page 3 of 11

SOUND MOLD EP4423 HARDENER

4. First-aid measures

Description of first aid measures

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin contact: Immediate continued and thorough washing in flowing water for at least 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential. Wash clothing before reuse. Properly dispose of leather items such as shoes, belts, and watchbands. Suitable emergency safety shower facility should be immediately available.

Eye contact: Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Ingestion: Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicological information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the



Material Safety Data Sheet (MSDS)

Page 4 of 11

SOUND MOLD EP4423 HARDENER

clinical condition of the patient. Repeated excessive exposure may aggravate preexisting lung disease.

5. Fire-fighting measures

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water, spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards caused by the substance, its products of combustion or resulting gases: In case of fire, the following can be released:

Carbon monoxide (CO); Nitric oxide (NO_x).

Protective equipment: Wear fully protective suit. Wear self-contained respiratory protective device.

Additional information : Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations

6. Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. Handling and storage

Handling:

Information for safe handling: Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection: No special measures required.

Storage: receptacles.

Storage stability

Storage temperature: 23 °C

Storage Period: 24 Months



Material Safety Data Sheet (MSDS)

Page 6 of 11

SOUND MOLD EP4423 HARDENER

Change in condition

Boiling point/Boiling range:	>200°C (DIN 53173)
Flash point:	>100°C Closed cup (DIN 51578)
Ignition temperature:	>300°C (DIN 51794)
Decomposition temperature:	>260°C (DIN 53171)
Danger of explosion:	Product does not present an explosion hazard
Density at 25°C:	About 0.72 g/cm ³
Solubility in / Miscibility with water:	Miscible or slightly soluble
organic solvents:	Soluble in many organic solvents.

10. Stability and reactivity

Reactivity: No data available

Chemical stability: Unstable at elevated temperatures

Possibility of hazardous reactions: Polymerization will not occur

Conditions to avoid: Avoid temperatures above 250°C (482°F) Exposure to elevated temperatures can cause product to decompose.

Incompatible materials: Avoid contact with: Strong acids. Strong oxidizers. Avoid contact with metals such as: Aluminum. Zinc. Copper. Galvanized metals. Avoid unintended contact with: Halogenated hydrocarbons.

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Ammonia. Nitrogen oxides.

11. Toxicological information

Acute toxicity:

Experimental/calculated data: Semi-lethal dose for rats (oral): 2,820 mg/kg

Semi-lethal concentration rats (inhaled): > 0.62 - < 1.14 mg/l for 4 h aerosol test.



Material Safety Data Sheet (MSDS)

Page 7 of 11

SOUND MOLD EP4423 HARDENER

Rats (inhalation): 8 h (IRT) animal studies have shown no mortality during specified exposure times.

Irritability

Evaluation of stimulation effect: Corrosive! Can damage skin and eyes.

Experimental/calculated data: Skin corrosive/Irritant Rabbit: corrosive.

Severe eye damage/irritation in rabbits: irreversible damage

Respiratory/skin allergies

Evaluation of sensitization: Contact with skin may cause allergy. The product is untested. This statement is based on the properties of individual components.

Experimental/calculated data: Local Lymphatic node Test (LLNA) Mice: (OECD 429 Guidelines)

Reproductive toxicity

Evaluation of reproductive toxicity: Animal studies have shown that it can impair fertility. The product is untested. This statement is based on the properties of individual components.

Evaluation of reproductive toxicity: Results from coverage tests (OECD 421/422) Animal studies have shown impaired fertility.

Eye irritation: Irritating

Sensitization: Skin contact may cause sensitization.

12. Ecological information

The following ecotoxicity information data can be provided for reference and use.

Aquatic toxicity evaluation:

Very toxic to aquatic organisms (acute effects). Depending on local conditions and existing concentrations, the biodegradation process of activated sludge may be disrupted.

Toxicity to fish:

Semi-lethal concentrations (96 h) > 1,000 mg/l, the details of the toxic effects of high body



Material Safety Data Sheet (MSDS)

Page 8 of 11

SOUND MOLD EP4423 HARDENER

(German industry Standard 38412 Part 15, static, electrostatic) are related to the rated concentration. The product will cause a change in the PH value of the test system. Results Reference neutralized samples.

Aquatic invertebrates:

At a semi-effective concentration (48 h) of 56 mg/l, details of the (static) toxic effects of Daphnia magnus are related to the rated concentration. The product changes the PH of the test system. The results showed that the samples were non-neutral. No measurable reduction in harmful effects was observed after neutralization.

Aquatic plants:

Semi-effective concentration (72 h) > 0.5 mg/l, (German industry Standard 38412 Part 9)

Details of toxic effects are related to rated concentrations

Activity to microorganisms/activated sludge:

Details of toxic effects at 20% effective concentrations (0.5 h) > 1,995 mg/l in activated sludge, industrial wastewater (OECD Guideline 209, aquatic) are related to rated concentrations.

Mobility:

Evaluation of chemical conversion between different environmental media: possible adsorption on solid phases.

Sustainability and degradability:

Elimination of information: BOD in 0% theoretical BOD. (14 days) (OECD 301C; ISO 9408; 92/69/EEC, C.4-F) (aerobic, activated sludge) product not tested. Statements regarding environmental end-points and environmental approaches are based on individual groups

13. Disposal considerations

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose of the product by burning in a suitable incinerator or bury in an approved landfill following all applicable local and/or national regulations.

Uncleaned packaging:

Recommendation:

Empty containers may not be disposed of unless any remaining material adhering to the internal walls has been removed.

Disposal must be made according to official regulations.

14. Transport information

Land transport ADR/RID (cross-border)



Material Safety Data Sheet (MSDS)

Page 9 of 11

SOUND MOLD EP4423 HARDENER



UN-Number: 3259
Packaging group: II
Hazard label: 8
Description of goods: Amines, solid, N.O.S. (polypropylene glycol triamine ether, 2-(1-Piperazinyl) ethylamine)

Maritime transport IMDG:



UN-Number: 3259
Packaging group: II
Hazard label: 8
Description of goods: Amines, solid, N.O.S. (polypropylene glycol triamine ether, 2-(1-Piperazinyl) ethylamine)

Air transport ICAO-TI and IATA-DGR



UN-Number: 3259
Packaging group: II
Hazard label: 8
Description of goods: Amines, solid, N.O.S. (polypropylene glycol triamine ether, 2-(1-Piperazinyl) ethylamine)

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by



Material Safety Data Sheet (MSDS)

Page 5 of 11

SOUND MOLD EP4423 HARDENER

8. Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if room is well-ventilated.

Protection of hands: Protective gloves



Material of gloves:

Synthetic rubber gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses Tightly sealed goggles



Body protection: Protective work clothing

9. Physical and chemical properties

General Information

Form:	Paste
Odour:	Amine-like
Colour:	White



Material Safety Data Sheet (MSDS)

age 10 of 11

SOUND MOLD EP4423 HARDENER

container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. Regulatory information

Labelling according to EU guidelines:

The product has been marked in accordance with EU Directives / respective national laws.

Code letter and hazard designation of product:

C Corrosive

Hazard-determining components of labelling:

Xn Harmful

C Corrosive

Risk phrases:

21/22 Harmful in contact with skin and if swallowed.

36/38 Irritating to eyes and skin.

40 Limited evidence of a carcinogenic effect.

43 May cause sensitisation by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of water.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

57 Use appropriate container to avoid environmental contamination.

60 This material and its container must be disposed of as hazardous waste.

Special labelling of certain preparations:

Contains epoxy constituents. See information supplied by the manufacturer.

National regulations:

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual



Material Safety Data Sheet (MSDS)

age 10 of 11

SOUND MOLD EP4423 HARDENER

relationship.

Relevant R-phrases

20/21 Harmful by inhalation and in contact with skin.

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.