Epoxy Grout Cleaner

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Product Name: Epoxy Grout Cleaner
Manufacturer: Zhongshan Cashleton Building Materials Co., Ltd.
Add: No. 17 Fuzelu Road, Sanjiao Town, Zhongshan City

1. Composition/Ingredients Information

Main Ingredients: AES, Propylene Glycol Monomethyl Ether, Glycolic Acid, Formic Acid, Sodium Lauryl Sulfate, Industrial Salt.

Content: Specific proportions vary by batch.

1.1. AES

Chemical Name: Sodium Alcohol Ether Sulphate (AES)

CAS No.: 9004-82-4

Molecular Formula: RO(CH2CH2O)n-SO3Na（n=2 or 3，R=12~15 alkyl）

Molecular Weight:（C12H26O5SNa）

Average relative molecular mass: 330.5（It may vary depending on the specific molecular formula）

1.2. Propylene Glycol Monomethyl Ether

Chemical Name: Methoxypropanol

CAS No.: 1320-67-8 or 107-98-2（Different materials may vary）

Molecular Formula: C4H10O2

Molecular Weight: 90.12

Hazard category: Flammable liquid

Routes of invasion: Inhalation, ingestion, transdermal absorption

Health hazard: Short-term exposure to high concentrations of propylene glycol monomethyl ether vapor can cause irritation to the eyes, skin and respiratory tract. When exposed to extremely high concentrations, it may cause the central nervous system to be inhibited, presenting symptoms such as headache, dizziness and insomnia.

Long-term or repeated exposure to this substance may cause the skin to lose fat, further affecting the health of the skin. Accidental ingestion may cause symptoms such as nausea, vomiting and diarrhea, and in severe cases, it can even be life-threatening.

Physical Properties:

Appearance:	Colorless transparent liquid
Boiling Point	110.5~120℃
Flash Point	31.1~39.9℃
Relative density（Water=1）	0.912~0.921
Solubility	Miscible with water

1.3. Glycolic Acid

Chemical Name: Hydroxyacetic acid（or Glycolic acid）

CAS No.:79-14-1

Hazard category: The specific hazard category may vary depending on different suppliers or preparation methods, but it is generally considered that glycolic acid is irritating.

Routes of invasion: Inhalation, ingestion, skin contact.

Health hazard: Irritating to the eyes, skin, mucous membranes and upper respiratory tract. High concentration or prolonged exposure may cause serious injury.

Physical Properties:

Appearance	Colorless crystals or pale yellow liquid (70% solution)
Melting Point	78–79°C (decomposes)
Boiling Point	112℃
Solubility	Soluble in water, methanol, ethanol

1.4. Formic Acid

Chemical Name: Formic Acid

CAS No.: 64-18-6

Hazard category: Class 8.1 Acidic Corrosive substances

Health hazard: Mainly causes irritation symptoms of the skin and mucous membranes. Contact may cause conjunctivitis, eyelid edema, rhinitis, bronchitis, and in severe cases, acute chemical pneumonia. Oral administration of concentrated formic acid can corrode the mucous membranes of the oral cavity and digestive tract, causing vomiting, diarrhea and gastrointestinal bleeding, and even death due to

acute renal failure or respiratory failure. Skin contact can cause inflammation and ulcers. Allergic reactions occur occasionally.

Environmental hazard: It is harmful to the environment and can cause pollution to water bodies.

Harmful component: Formic acid, the content is usually higher than 90.0%

Physical Properties:

Appearance	Colorless and transparent fuming liquid with a strong pungent sour taste
Melting Point (℃)	8.2
Boiling Point (℃)	100.8
Relative density（Water=1）	1.23
Saturated vapor pressure（kPa）	5.33 (24℃)
Logarithm of octanol/water partition coefficient	-0.54
Flash Point (℃)	68.9 (closed cup)
Ignition temperature (℃)	410
Upper limit of explosion% (V/V)	57.0
Lower limit of explosion% (V/V)	18.0
Solubility	Miscible with water, insoluble in hydrocarbons, and miscible with alcohols

1.5. Sodium Lauryl Sulfate

Chemical Name: Sodium Lauryl Sulfate；dodecylsulfate, sodium salt

CAS No.:151-21-3

Molecular Formula: C12H25O4SNa (or C12H26O4SNa)

Molecular Weight: 288.38 (or 289.39)

Harmful substance component: Sodium dodecyl sulfate

Hazard category: Flammable, irritating, sensitizing.

Health hazard: It has an irritating effect on mucous membranes and the upper respiratory tract, as well as on the eyes and skin, and can cause allergic reactions in the respiratory system.

Environmental hazard: There is no specific information on environmental hazards, but attention should be paid to its flammability and possible irritating effects.

1.6. Industrial Salt (Sodium Chloride)

Chemical Name: Sodium Chloride

CAS No：7647-14-5

Molecular Weight: 58.44

Molecular Formula: NaCl

Hazard category: No specific hazard, but ingestion in large quantities may pose health risks.

Routes of invasion: Inhalation, ingestion, transdermal absorption. Health hazard: Consuming large amounts can cause symptoms such as nausea and vomiting.

Explosion hazard: This product is not flammable

2. Hazard Identification

3. First Aid Measures

Skin Contact: Rinse with plenty of water.

Eye Contact: Flush with water or saline; seek medical help.

Ingestion: Drink water, induce vomiting; seek medical help.

4. Fire-Fighting Measures

Fire extinguishing method: Use dry powder, carbon dioxide, foam and other fire extinguishers to put out the fire.

Fire extinguishing agent: Select the appropriate fire extinguishing agent based on the type of fire source and the on-site conditions.

5. Accidental Release Measures

Emergency response: Evacuate personnel from the contaminated area of the leakage to a safe zone immediately, isolate the area, and strictly restrict access. Cut off the source of fire. It is recommended that emergency response personnel wear self-contained positive pressure breathing apparatus and anti-toxic suits. Cut off the source of leakage as much as possible. Prevent the flow into sewers, flood drainage ditches and other restricted Spaces.

Minor leakage: Mix with sand, dry lime or soda ash. In case of large-scale leakage: Build embankments or dig pits for containment. Transfer by pump to tank trucks or special collectors for recovery or transportation to waste treatment facilities for disposal.

6. Handling and Storage

Precautions for operation: Operate in a closed system and enhance ventilation. Operators must undergo specialized training and strictly abide by the operating procedures. It is recommended that operators wear self-priming filtering dust masks, chemical safety goggles, anti-toxic penetration work clothes and rubber gloves. Keep away from sources of ignition and heat. Smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. Avoid generating dust. Avoid contact with oxidants. When handling, load and unload gently to prevent damage to the packaging and containers. Equip with corresponding types and quantities of fire-fighting equipment and leakage emergency handling devices. Empty containers may still contain harmful substances.

Storage precautions: Store in a cool, well-ventilated warehouse. Keep away from fire sources and heat sources. It should be stored separately from oxidants and must not be mixed. The storage area should be equipped with appropriate materials for containing spills.

7. Contact control and personal protection

Engineering control: Operate in a closed system and enhance ventilation.

Respiratory protection: When the dust concentration in the air exceeds the standard, it is recommended to wear a self-priming filtering dust mask.

Eye protection: Wear chemical safety goggles.

Body protection: Wear anti-toxic penetration work clothes.

Hand protection: Wear rubber gloves.

Other precautions: Smoking, eating and drinking are prohibited in the workplace. Wash hands before meals. After finishing the work, take a shower and change clothes. Maintain good hygiene habits.

8. Stability and Reactivity

Stable under normal conditions.

Incompatible with strong oxidizers.

Avoid conditions: high temperature, fire sources, strong oxidants, etc.

9. Toxicological Information

Acute toxicity: May cause allergies.

Chronic toxicity: Toxic to aquatic life.

10. Ecological Information

Biodegradability: Good biodegradability

Non-biodegradability: May have long-term impacts on the environment

11. Disposal Considerations

Waste nature: Hazardous waste (Classified and treated in accordance with local regulations)

Disposal method: Entrust a qualified waste treatment unit to carry out the disposal.

Disposal precautions: Do not dump or discard at will.

12. Regulatory Information

Domestic regulations: Comply with relevant laws and regulations such as the "People's Republic of China Law on Work Safety" and the "People's Republic of China Law on the Prevention and Control of Occupational Diseases".

International regulations: Comply with relevant international standards such as the United Nations Recommendation on the Transport of Dangerous Goods (TDG) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

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