

Material Safety Data Sheet (MSDS)

Enacted date: Dec 17 2008
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1. PRODUCT NAME

ibidi Mounting Medium (for fluorescence microscopy)

2. COMPOSITION AND INGREDIENTS INFORMATION

Reagent	Weight %	CAS #
Glycerol	< 90	56-81-5
1,4-diazabicyclo[2.2.2]octane	< 1	280-57-9

For detailed information see the MSDS of the pure components listed in the table.

3. HAZARDS IDENTIFICATION

Main hazards: Harmful

R-phrases: R22, R36, R37, R38, R52, R53

Potential Acute Health Effects:

Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation. Causes skin, eye and respiratory tract irritation. Harmful if swallowed. The substance may be toxic to kidneys. Repeated or prolonged exposure to the substance can produce target organs damage.

4. FIRST-AID MEASURES

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Separate eyelids with finger tips. Cold water may be used. Get medical attention if irritation occurs.

Skin Contact:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. If breathing is difficult, contact emergency personnel.

Ingestion:

Do not induce vomiting unless directed to do so by medical personnel. If swallowed, wash out mouth with water if person is conscious. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Remove contaminated clothing. Get medical attention if symptoms appear.

5. FIRE AND EXPLOSION DATA

Flammability of the Product:

May be combustible at high temperature.

Products of Combustion:

These products are carbon oxides (CO, CO₂), irritating and toxic fumes.

Fire Hazards in Presence of Various Substances:

Slightly flammable to flammable in presence of open flames and sparks, of heat, of oxidizing materials. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:

Explosive in presence of oxidizing materials.

Fire Fighting Media and Instructions:

SMALL FIRE: Use dry chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Explosion Hazards:

Glycerol is incompatible with strong oxidizers such as chromium trioxide, potassium chlorate, or potassium permanganate and may explode on contact with these compounds. Explosive glyceryl nitrate is formed from a mixture of glycerol and nitric and sulphuric acids. Perchloric acid, lead oxide + glycerin form perchloric esters which may be explosive. Glycerin and chlorine may explode if eated and confined.

6. ACCIDENTAL RELEASE MEASURES

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Use appropriate personal protective equipment. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Ventilate the area.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection away from source of heat or ignition and use non sparking type tools. Ground all equipment containing material. Do not ingest. Do not breathe the gas/fumes/vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.

Storage: Store away from sunlight in well-ventilated dry place at room temperature. Keep away from incompatibles such as oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance: Liquid. Viscous (Syrupy) liquid.

Color: Clear Colorless.

Solubility: Miscible in cold water, hot water and alcohol. Partially soluble in acetone. Insoluble in carbon tetrachloride, benzene, chloroform, petroleum ethers, and oils

10. STABILITY AND REACTIVITY

Stability: The product is stable.

Conditions of instability: Avoid contact with incompatible materials, excess heat and ignition, sources, moisture.

Incompatibility with various substances: Highly reactive with oxidizing agents.

Corrosivity: Non-corrosive.

Special Remarks on Reactivity: Hygroscopic. Glycerol is incompatible with strong oxidizers such as chromium trioxide, potassium chlorate, or potassium permanganate. Glycerol may react violently with acetic anhydride, aniline and nitrobenzene, chromic oxide, lead oxide and fluorine, phosphorous triiodide, ethylene oxide and heat, silver perchlorate, sodium peroxide, sodium hydride.

Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Absorbed through skin. Eye contact.

Chronic Effects on Humans: May cause damage to the following organs: kidneys.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATION

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. TRANSPORT INFORMATION

Not a DOT controlled material (United States).

15. OTHER INFORMATION

No specific notes.

The above information is believed to be correct to be the best of our knowledge and information but dose not purport to be all inclusive and shall be used only as a guide. This product is intended to be used by expert persons having chemical knowledge and skill, at their own discretion and risk and ibidi or the distributor shall not be held liable for any damage resulting from handling or from contact with the above material.

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