



NBP2-29610 Protocol

MSDS (NBP2-29610)

Paraformaldehyde

Hazard Information

Chemical Name: Paraformaldehyde

CAS Number: 30525-89-4

Hazard Identification

Inflammation, blistering, irritation, blindness, watering eyes, eye redness, itchy eyes.

First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Consult a physician.

Skin Contact: Flush skin with excess amounts of water for at least 15 minutes. No known effect from skin contact.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. **SPEED IS ESSENTIAL, OBTAIN MEDICAL AID IMMEDIATELY.**

Ingestion: If swallowed, get medical aid immediately. Only induce vomiting if directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Store at 4oC. Store in a tightly closed container. Light and moisture sensitive.

Exposure Controls / Personal Protection

Gloves: Protect the skin by handling with rubber/latex gloves.

Eye Protection: Protect eyes by wearing face shield and safety goggles.

Other Precautions: Wear appropriate protective clothing.

Physical and Chemical Properties

Form: Liquid

Color: Colorless

Odor: Odorless

Melting Point: No data available

Boiling Temperature: No data available

Density: No data available

Vapor Pressure: No data available

Solubility in Water: Very Low

Flash Point: No data available

Explosion limits: No data available

Ignition Temperature: No data available

Stability and Reactivity

Stable under recommended storage conditions.

Disposal Considerations

Chemical residues are generally classified as special waste, and as such covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to chemical disposal company. Rinse out empty containers thoroughly before disposal.

Other Information

The information contained in this material safety datasheet is believed to be accurate but it is the responsibility of the user to determine the applicability of these data to the formulation of necessary safety precautions. NOVUS shall not be held responsible for any damage resulting from the use of the above product or the information contained in this material safety data sheet.

Saponin

Hazard Information

Chemical Name: Saponin

CAS Number: 8047-15-2

Hazard Identification

Irritation, eye inflammation, redness, watering

First Aid Measures

Eye Contact: Causes very serious eye irritation.

Skin Contact: May cause skin irritation.

Inhalation: May cause serious respiratory tract irritation. Harmful if inhaled.

Ingestion: May be harmful if swallowed. Call a physician.

Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Store at 40C in a tightly closed container.

Exposure Controls / Personal Protection

Gloves: Protect the skin by handling with rubber/latex gloves.

Eye Protection: Protect eyes by wearing face shield and safety goggles.

Other Precautions: Wear appropriate protective clothing.

Physical and Chemical Properties

Form: Liquid

Color: Brown

Odor: Odorless

Melting Point: No data available

Boiling Temperature: No data available

Density: No data available

Vapor Pressure: No data available

Solubility in Water: Very Low

Flash Point: No data available

Explosion limits: No data available

Ignition Temperature: No data available

Stability and Reactivity

Stable under recommended storage conditions.

Disposal Considerations

Chemical residues are generally classified as special waste, and as such covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to chemical disposal company. Rinse out empty containers thoroughly before disposal.

Other Information

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Sodium Azide

Hazard Information

Chemical Name: Sodium Azide

Chemical Formula: NaN₃

CAS Number: 26628-22-8

EEC-No: 247-852-1

Hazard Identification

Very toxic if swallowed. Contact with acids liberates very toxic gas.

First Aid Measures

Eye Contact: Irrigate thoroughly with water for at least 15 minutes. Seek medical advice.

Skin Contact: Wash skin thoroughly with soap and water for at least 15 minutes. Remove contaminated clothing and wash before re-use. In severe cases, obtain medical attention.

Inhalation: Remove from exposure, rest and keep warm. In severe cases, seek medical advice.

Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. Seek medical advice.

Accidental Release Measures

Wear appropriate protective clothing. Inform others to keep a safe distance. Spread soda ash liberally over spillage. If local regulations permit, mop up cautiously with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company. Wash site of spillage thoroughly with water.

Handling and Storage

Handling: Avoid prolonged contact with copper or lead, especially in drainage systems or mercury and other heavy metals which may result in the formation of explosive azides. Under no circumstances eat, drink or smoke while handling this material. Wash hands thoroughly after working with this material. Contaminated clothing should be removed and washed before re-use.

Exposure Controls / Personal Protection

Respirator: Dust respirator

Ventilation: Extraction hood

Gloves: Rubber or plastic

Eye Protection: Lab goggles or face shield

Other Precautions: Plastic apron, sleeves, boots - if handling large quantities.

Physical and Chemical Properties

Form: Liquid

Color: Colorless

Odor: Odorless

Melting Point: No data available

Boiling Temperature: No data available

Density: No data available

Vapor Pressure: No data available

Solubility in Water: Very soluble

Flash Point: No data available

Explosion limits: No data available

Ignition Temperature: No data available

Stability and Reactivity

Stable unless heated.

Slow reaction at ambient temperature unless water contains dissolved carbon dioxide. Decomposes violently with chromyl chloride. Contact with acids liberates highly toxic gas: forms readily detonable salts with many materials, particularly heavy metals.

Toxicological Information

After ingestion, irritation of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract.

Danger of skin absorption.

Disposal Considerations

Chemical residues are generally classified as special waste, and as such covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to chemical disposal company. Rinse out empty containers thoroughly before disposal.

Other Information

The information contained in this material safety datasheet is believed to be accurate but it is the responsibility of the user to determine the applicability of these data to the formulation of necessary safety precautions. NOVUS shall not be held responsible for any damage resulting from the use of the above product or the information contained in this material safety data sheet.