



Safety Data Sheet

Powdered Formalin Pack A

1. Identification

Product Name: Powdered Formalin Pack A

Item #: 8001, 8006, 8011, MA0102003A, MA0102004A, MA0102005A, MA0102006A, MA0102007A, MA0102008A

Web SDS: S3

Synonyms: Paraformaldehyde Powder

Recommended Use: N/A

Manufacturer:

BBC Biochemical
409 Eleanor Lane,
Mount Vernon, WA 98273
1-800-635-4477

Restrictions on Use: N/A

In Case of Emergency:

Chemtrec US 1-800-424-9300
Chemtrec International 703-527-3887

2. Hazards Identification

OSHA Hazard Classification(s):

Flammable Solids - Category 2
Acute Toxicity - Oral - Category 4
Acute Toxicity - Inhalation - Category 4
Skin Corrosion - Category 1A
Eye Damage - Category 1
Sensitization - Skin - Category 1B
Carcinogenicity - Category 2

Signal Word: Danger

Hazard Statement(s): Flammable solid. Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing cancer.

Pictogram(s):



Precautionary Statement(s): Prevention: Keep away from heat sources and open flame. No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and equipment. Wear protective gloves, eye protection, face protection. Wash body thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust, vapors. Use only outdoors or in a well-ventilated area. Do not breathe dusts or mists. Wear protective gloves, protective clothing, eye protection and face protection. Wear eye protection, face protection. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Response: In case of fire: Use water, dry chemical, CO2 or foam to extinguish. If swallowed: Call a doctor if you feel unwell. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Take off all contaminated clothing and wash it before reuse. Immediately call a doctor. Specific treatment (see first aid section on this label). If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. If exposed or concerned: Get medical attention.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local regulations.

Descriptions of Hazards not otherwise classified: N/A

Percent of mixture with unknown acute toxicity: N/A

3. Composition and Information on Ingredients

Chemical Name	Common Name	CAS #	Concentration %
Paraformaldehyde		30525-89-4	Trade Secret



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Select Buffer		Trade Secret	Trade Secret
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4. First Aid Measures

Eye Contact: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention immediately.

Skin Contact: If on skin (or hair): Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water.

If skin irritation occurs: Get medical advice/attention immediately.

Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped. Get medical advice/attention immediately for acute exposure.

Ingestion: Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention immediately.

Symptoms: Irritation eyes, nose, throat; headache, dizziness, dermatitis, skin irritation or burns, nausea.

Recommendations for immediate medical care/special treatment: Get medical advice/attention if you feel unwell.

5. Fire- Fighting Measures

Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam, water. Use water spray to cool fire-exposed containers and disperse vapors.

Fire Hazards (Chemical): OSHA classified Flammable Solid

Special Protective Equipment: Fire fighters should use self-contained breathing apparatus and protective clothing.

Precautions for Firefighters: Fire fighters should use self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Emergency Procedures: Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.

Protective Equipment: See section 8

Environmental Precautions: Prevent release to the environment by using barriers.

Containment and Clean-Up Procedures: Use barriers to prevent spreading. Collect spill in container. Call waste authorities.

7. Handling and Storage

Handling: Do not breathe vapors. Do not eat, drink or smoke when using this product. Keep away from heat, sparks, open flames, hot surfaces. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Storage: Store locked up. Store in a well-ventilated, cool place. Keep dry. Keep sealed until ready to use. Follow instructions.

Material is hygroscopic (absorbs water from air).

8. Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs):

Reagent	CAS #	OSHA PEL TWA
Formaldehyde (as off gas)	50-00-0	0.75ppm
Select Buffer	Trade Secret	Suggested 2 mg/m3 TWA

ACGIH Threshold Limit Values (TLVs):

Reagent	CAS #	ACGIH PEL TLV	ACGIH STEL
Formaldehyde (as off gas)	50-00-0	0.3ppm ceiling	
Select Buffer	Trade Secret	Suggested 2 mg/m3 Ceiling	

Engineering Controls: Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work areas.



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Personal Protective Measures: Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.

Special PPE Requirements: If ventilation hood not available wear respirator.

9. Physical and Chemical Properties Section

Appearance: White, Powder

Molecular Weight: N/A

Molecular Formula: N/A

pH: N/A

Boiling Point and Boiling Range: N/A

Melting Point/Freezing Point: N/A

Flash Point: N/A

Specific Gravity/Relative Density: N/A

Odor: N/A

Odor Threshold: N/A

Color: White

Flammability (solid/gas): N/A

Vapor Density: N/A

Upper/Lower flammability or explosive limits: N/A

Vapor Pressure: N/A

Evaporation Rate: N/A

Partition Coefficient: n-octanol/water: N/A

Viscosity: N/A

Auto-ignition temperature: N/A

Solubility: N/A

Decomposition Temperature: N/A

10. Stability and Reactivity

Reactivity: N/A

Chemical Stability: Stable

Conditions of Stability/Instability: Stable under normal conditions of temperature and pressure.

Stabilizers needed: None

Safety issue indicated by appearance change: N/A

Other: N/A

Hazardous Reactions: N/A

Hazardous Polymerization: Does not occur

Conditions to avoid: N/A

Classes of Incompatible Materials: Oxidizers, Strong Acids, Strong Bases

Hazardous Decomposition Products: Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors (I.e. Carbon monoxide) may be released in a fire.

11. Toxicological Information

Likely Routes of Exposure

Eyes: Irritation. May cause permanent damage or redness to cornea. May cause pain if in eyes. Exposure to high vapor concentrations or contact with dust causes tearing and severe irritation. Contact with dust can cause severe burns.

Skin: Irritation. May cause permanent damage or redness to skin. May cause pain or chemical burns. Continuous exposure over time causes a skin sensitization. Contact with dust causes drying, cracking and scaling.

Inhalation: Dizziness, headache, nausea. Contains reagents suspected to cause mutations to germ cells and toxic effects on reproductive organs. Contains carcinogen paraformaldehyde, may cause cancer over long exposure times. Irritation to nose, throat and respiratory system. May cause inflammation of lining of nose, throat and lungs with bronchopneumonia and edema possible from



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extremely irritating exposure.

Ingestion: May cause allergic reaction or nausea. Irritation to throat and respiratory system. Severe stomach pains will follow with possible loss of consciousness.

Signs or Symptoms of Exposure: Nausea. Cancer in nose, changes to reproductive system or germ cell mutation. A sensitization to skin. Prolonged and repeated contact causes a hardening or tanning effect. Repeated exposure may also cause allergic dermatitis or asthma. May harm kidneys.

Effects from short term exposure (delayed, immediate, chronic): Irritation to the eyes, nose, throat; headache, dizziness, nausea.

Acute Toxicity (Numerical Measures): Paraformaldehyde: LD50(oral,rat)=800 mg/kg, LC50(inhalation,rat)=1070 mg/m3/4H

Carcinogenicity (NTP, IARC, OSHA): Contains Paraformaldehyde carcinogen as formaldehyde. IARC Group 2B "Possibly carcinogenic to humans".

12. Ecological Information

Ecotoxicity: Select buffer: Toxicity to fish: LC50-Gambusia affinis (mosquito fish)-125mg/l-96h; LC50-oncorhynchus mykiss (rainbow trout)-45.5mg/l-96h Toxicity to daphnia and another aquatic invertebrates: Immobilization EC50-aphnia-40.38mg/l-48h

Persistence and degradability: N/A

Bioaccumulation Potential (octanol-water partition coefficient, BCF): N/A

Mobility in the soil: N/A

Adverse Environmental Effects: Harmful to aquatic life.

13. Disposal Considerations

Recommended Disposal Containers: Check with your local waste authorities*

Recommended Disposal Methods: Do not dispose of in drains, check with your local waste authorities.*

Physical/Chemical Properties affecting Disposal: See section 2 and section 9 applicable information.*

Special Precautions for Landfill and Incineration Activities: Check with your local waste authorities.*

Waste Stream: Consult your local or regional authorities.*

14. Transport Information

UN Number: UN2921

UN Proper Shipping Name: Corrosive Solids, Flammable, n.o.s., (mixture containing paraformaldehyde)

Transport Hazard Class(es): 8 (4.1)

Packing Group Number: II

Environmental Hazards (IMDG code):

Marine Pollutant: No

Transport in Bulk (IBC Code): N/A

Special Transport Precautions: N/A

15. Regulatory Information

OSHA: N/A

DOT: N/A

EPA: N/A

CPSC: N/A



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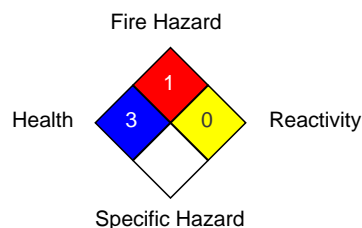
16. Other Information

Revision Date: 12/11/2015

NFPA

Health	3
Fire Hazard	1
Reactivity	0
Specific Hazard	

National Fire Protection Association (USA) NFPA



HMIS

Health	3
Flammability	1
Physical Hazard	0
Personal Protection	

Hazardous Material Information System HMIS

Health	3
Flammability	1
Physical Hazard	0
Personal Protection	

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