



SAFETY DATA SHEET

Section 1 – Product and Company Identification

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Trade Name: B.T.U. Compound
Product Type: Absorbent/Preservative Powder

Product Code: 20975, 29715, 29730

Revision Date: Nov-14

Section 2 – Hazards Identification

Appearance: White Powder **Odor:** Pungent

Emergency Overview: Signal Word **WARNING** **Skin and Inhalation irritant**
This contains materials considered hazardous by OSHA Hazard Communication Standard [29 CFR 1910.1200]



- Causes Skin and Eye irritation
- May sensitize skin
- Avoid eye contact and prolonged exposure to dust/vapors.
- Wear appropriate personal protective equipment (see section 8 for more information)

Potential Health Effects: [See section 11 for additional information]

Acute Exposure

- **Eye Contact:** Can result in corneal damage or blindness.
- **Skin Contact:** Can produce inflammation and blistering.
- **Inhalation:** Dust inhalation will produce irritation to respiratory tract, characterized by burning, sneezing and coughing.
- **Ingestion:** Will produce irritation to the gastro-intestinal tract.

Carcinogenicity: No data available

Reproduction: No data available

Medical conditions aggravated: No data available

Potential environmental effects: [see section 12 for additional information]
No data available

Section 3 – Composition/Information on Ingredients

| <u>Ingredient Name:</u> | <u>CAS number</u> | <u>WT %</u> |
|-------------------------|-------------------|-------------|
| Paraformaldehyde | 30525-89-4 | 4.0 |

Section 4 – First Aid Measures

Eye contact: Check for and remove contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

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

Section 4 – First Aid Measures (continued)

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5 – Fire-fighting measures

General Information Flammable Dust

Extinguishing media

Suitable For small fires use dry chemical powders. For large fires, use water spray, or fog. Cooling containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosion.

Non-suitable None

Protective Clothing Wear suitable protective equipment for chemical exposure.

Section 6 – Accidental Release Measures

General Information Use proper personal protective equipment as indicated in section 8

Spill/Leaks SMALL SPILL: Use appropriate tools to put the spilled solid in a convenient waste disposal container.
LARGE SPILL: Sweep up material into waste container for disposal. If washed down, may clog drains, avoid dusting conditions.

Waste Disposal Dispose of materials in accordance with Federal, State and Local regulations. Slurry may plug drains.

Section 7 – Handling & Storage

Handling Keep container closed, dry and away from heat and ignition source. Do not ingest, do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from such as oxidizing agents, reducing agents, metals, acids.

Storage Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 – Exposure Control/Personal Protection

| <u>Ingredient Name:</u> | <u>Occupational exposure limits</u> | | <u>OSHA PEL/STEL (15 mins)</u> |
|-------------------------|-------------------------------------|--------------|--|
| | <u>AGCIH TLV Ceiling</u> | <u>NIOSH</u> | |
| Paraformaldehyde | 0.3 ppm | | 0.75 ppm/2.0 ppm |
| Attapulgate | 10 mg/m ³ Total Dust | | 80 mg/m ³ |
| Plaster of Paris | 15 mg/m ³ Total Dust | | 5 mg/m ³ Respirable Fraction 15 mg/m ³ Total Dust |

Engineering Use adequate general or local exhaust to keep airborne concentrations below the permissible exposure levels

Personal Protective Equipment

Eyes Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin Wear appropriate protective gloves to prevent skin exposure.

Clothing Wear appropriate protective clothing to prevent skin exposure.

Respirators Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Always use a NIOSH or European EN149 approved respirator when necessary.

Section 9 – Physical & Chemical Properties

| | |
|---|--|
| Appearance (physical state, color, etc.) | Solid (Amorphous solid powder) |
| Odor | Slightly pungent formaldehyde odor |
| pH | 6.7 neutral |
| Melting point/freezing point | 120 -170 deg C. Decomposition temperature: 164°C (327.2°F) |
| Boiling point | Not Available |
| Flash point | Non combustible |
| Evaporation Rate | No Data |
| Flammability (solid/gas) | Non combustible |
| Lower flammable limit | Non combustible |
| Upper flammable limit | Non combustible |
| Vapor pressure | Not applicable |
| Vapor density | >1 (Air = 1) |
| Relative density | >1 Water = 1 |
| Water solubility | No Data |
| Partition coefficient: n-octanol/water | No Data |
| Auto ignition temperature | No Data |
| Decomposition temperature | No Data |
| Viscosity | Not applicable |

Section 10 – Stability & Reactivity

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|---|---|
| Stability | Stable under normal temperatures and pressures. |
| Conditions to avoid | High temperatures, sources of ignition, incompatible materials. |
| Materials to avoid | Oxidizing agents, reducing agents, |
| Hazardous Decomposition Products | Thermal decomposition may produce carbon monoxide. |

Section 11- Toxicological Information

Acute toxicity

Ingredient Name: Paraformaldehyde

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Toxicity to Animals: WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE (to a 4.0% concentration). Acute oral toxicity (LD50): 20,000 mg/kg [Rat]. Acute toxicity of the dust (LC50): 26,750 mg/m 4 hours [Rat].

Chronic Effects to Humans: Causes damage to the following organs: mucous membranes.

Other Toxic Effects on Humans: Very hazardous in case of skin contact (irritant). Hazardous in case of skin contact (sensitizer), of ingestion, of inhalation (lung corrosive). Slightly hazardous in case of skin contact (corrosive), of eye contact (corrosive).

Special Remarks on Chronic Effects on Humans: May affect genetic material (mutagenic). While Paraformaldehyde has not been identified as a carcinogen, it should be handled with caution since Formaldehyde (the monomer from which it is made) is a carcinogen.

Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: Causes severe skin irritation and possible burns. Eyes: Causes severe eye irritation and burns. May result in corneal injury. Inhalation: May be harmful if inhaled. May affect respiration (dyspnoea), cause severe irritation of the upper respiratory tract with pain, burns, and inflammation of the lining of the nose and throat and lungs. May cause loss of smell, and may cause pulmonary edema, bronchopneumonia. Ingestion: May be harmful if swallowed. May cause severe digestive tract irritation with inflammation of the mouth, throat and stomach, abdominal pain, nausea, vomiting, and diarrhea. Chronic Potential Heal Effects: Skin: Repeated or prolonged skin contact may cause sensitization dermatitis. Eyes: Repeated

or prolonged eye contact may cause conjunctivitis. Inhalation: Repeated or prolonged inhalation may cause chronic bronchitis or asthma. Ingestion: Repeated or prolonged ingestion may affect the kidneys.

Other Toxicological Information

Section 12 – Ecological Information

Ingredient Name: Paraformaldehyde

Environmental effects No Information Available.

Aquatic Eco toxicity No Information Available.

Other adverse effects No known significant effects or critical hazards.

Section 13 – Disposal Considerations

Waste disposal Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14 – Transportation Information

The data in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulation to properly classify your shipment.

International transport regulations

| Regulatory Information | UN/NA number | Proper shipping name | Classes/*PG | Reportable Quantity (RQ) |
|-------------------------------|--------------------------|-----------------------------|--------------------|---------------------------------|
| CFR | No Information available | | | |
| TDG | No Information available | | | |
| IMO/IMDG | No Information available | | | |
| IATA(Cargo) | No Information available | | | |

*PG : Packing group

Section 15 – Regulatory Information

US Federal and State Regulations: Paraformaldehyde

CT hazardous material survey. IL toxic substances disclosure to employee act: IL chemical safety act. NY release reporting list. RI RTK hazardous substances. PA RTK. MA RTK. MA spill list. NJ spill list. LA spill reporting. CA Director's list of Hazardous substances. TSCA 8(b) inventory. CERCLA Hazardous substances. RQ 1000 lbs. (453.6 Kg)

Other regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Canada WHMIS: CLASS B-4: Flammable Solid (Paraformaldehyde)
CLASS D2B: Material causing other toxic effects (TOXIC) [paraformaldehyde]

HMIS (USA):[paraformaldehyde]

Health Hazard: 2 Fire Hazard: 2 Reactivity: 0 Personal Protection: 1

National Fire Protection Association (U.S.A.) [paraformaldehyde]

Health: 3 Flammability: 2 Reactivity: 0 Special Hazard:

Section 16 – Other Information

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