

MATERIAL SAFETY DATA SHEET

Product Name: Paraformaldehyde
Catalog Number: 55080
DOT Hazard Class: 4.1
DOT Proper Shipping Name: Paraformaldehyde
UN/NA ID No. : UN2213
MSDS Prepared: 8/2009

Distributed By: Ladd Research
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INGREDIENTS

	<i>CAS Number</i>	<i>Percent</i>	<i>Exposure Limits</i>
Paraformaldehyde	30525-89-4	100	0.75ppm (OSHA PEL) (as formaldehyde)

PHYSICAL AND CHEMICAL DATA

Appearance and Odor: White powder. Pungent formaldehyde odor.

Solubility: Slight solubility in cold water.

Density: 1.45 g/ml @ 15°C

pH: 5% in water is neutral to litmus paper.

Boiling Point: Slowly sublimates to formaldehyde gas.

Melting Point: 120 - 170°C

Vapor Density (air=1): 1.03

Vapor Pressure (mm Hg): 1.4 @ 25°C

FIRE AND EXPLOSION HAZARD DATA

Flash Point: 70°C

Autoignition Temperature: 300°C

Flammable Limits: upper = 73, lower = 7.0

Explosion: Above flash point, vapor-air mixtures are explosive within flammable limits noted above.

Fire Extinguishing Media: Water spray, dry chemical, alcohol foam or carbon dioxide.

HEALTH HAZARD DATA

Emergency Overview: Danger! May be fatal if swallowed, inhaled or absorbed through skin. Causes irritation to skin, eyes and respiratory tract. Sensitizer. Suspect cancer hazard. Emits formaldehyde which may cause cancer. Combustible solid.

Inhalation: Highly irritating to upper respiratory tract. May cause inflammation of lining of nose, throat and lungs with bronchopneumonia and edema possible from extremely irritating exposure.

Ingestion: Causes severe irritation and inflammation of mouth, throat and stomach. Severe stomach pains will follow with possible loss of consciousness.

Skin: Causes drying, cracking and scaling.

Eye: Contact with vapor causes tearing and severe irritation. Contact with dust causes burns.

Chronic: May cause allergic dermatitis or asthma. May harm kidneys.

EMERGENCY AND FIRST AID

Inhalation: Remove to fresh air. If not breathing, administer rescue breathing. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion: Induce vomiting immediately as directed by medical personnel.

Skin: Immediately flush with plenty water for at least 15 minutes. Obtain medical attention.

Eye: Immediately flush eyes with plenty water for at least 15 minutes. Obtain immediate medical attention.

REACTIVITY DATA

Stability: Stable under ordinary conditions of use and storage. Slowly releases formaldehyde gas as it sublimates at room temperature.

Hazardous Decomposition Products: May form oxides of carbon when heated to decomposition.

Incompatibilities: Caustics, strong alkalis, isocyanates, anhydrides, oxides and inorganic acids.

Conditions to Avoid: Heat, flame, ignition sources, dusting and incompatibles.

SPILL, DISPOSAL AND STORAGE INFORMATION

Spill: Remove all sources of ignition. Ventilate area. Wear appropriate protective equipment. Clean up in a manner that does not disperse dust into the air. Place spilled material in closed container.

Disposal: State and local disposal regulations may differ from federal regulations. Obey all sources of regulation.

Storage: Store in tightly closed container away from incompatible materials, preferably in a flammable liquids storage room or cabinet.

PROTECTIVE EQUIPMENT AND CONTROL MEASURES

Ventilation: Local and general exhaust recommended.

Respirator: If exposure limit is exceeded and engineering controls are not feasible, a full face piece respirator with formaldehyde cartridge may be worn.

Skin: Wear impervious clothing to prevent skin contact.

Eye: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash station and safety shower in or very near the work area.

SECTION 313 SUPPLIER NOTIFICATION

This material contains Formaldehyde (CAS# 50-00-0, off-gas%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

The information presented is believed to be correct and is the most accurate information available to us at this time. However, Ladd Research makes no warranty, express or implied, and assumes no liability for this information and the product described herein.