

# 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:* 9/2011

*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 sublimes 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.

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