

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB NO. 1218-0072

IDENTITY (As used on Label and List)

Note: Blank spaces are not permitted. If any item is not applicable, or information is available, the space must be marked to indicate that.

Hardening Compound**SECTION 1. Company Identification**

Distributed by:	EMERGENCY TELEPHONE NUMBER
Monarch Resources	817-265-4535
ADDRESS	NUMBER FOR INFORMATION
210 N. East St.	same
Arlington, TX 76011	Date Prepared: 02/05/2009

SECTION 2. Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name)	OSHA	PEL	AGGIH TLV	OTHER LIMITS
Paraformaldehyde CAS# 30525-89-4	Yes	15	10	2A

SECTION 3. Hazardous Information

This product is classified as a hazardous material by the U.S. Department of Transportation.

SECTION 4. Physical Characteristics

Specific Gravity (H₂O = 1): 0.81-0.84gm/cm³ @ 20Deg C(68 Deg F) **Vapor Pressure (mm Hg.):** 5.0mm HgA. **Vapor Density (Air =1):** Formaldehyde=1.04, Water=0.62, Methanol=1.11 **Evaporation Rate (Butyl Acetate =1):** ND **Solubility In Water:** Slowly in cold water @ 20Deg C **Boiling Point:** Does not boil. Gives off formaldehyde gas when heated.

Appearance & Odor: White free flowing solid pill, with strong, pungent formaldehyde odor.

SECTION 5. -Fire & Explosion & Hazard Data

Flash Point (Method Used): 180 Deg F **Flammable Limits NA LEL:** 7% **UEL:** 73% **Extinguishing Media:** Large fires: alcohol type aqueous film forming foam. Small fires: Use CO₂ or dry chemical. **Special Fire Fighting Procedures:** Wear full fire fighting turnout gear & NIOSH approved self contained breathing apparatus. **Unusual Fire and Explosion Hazards:** Oxidizing chemicals may accelerate the burning rate in fire situation.

SECTION 6. Reactivity Data

Stability: Stable **Conditions to Avoid:** Temperatures above 100 Deg F, sparks, flame **Hazardous Decomposition or Byproducts:** Extreme temperatures can cause Na₂O, HF, and F. **Hazardous Polymerization:** Will Not Occur

SECTION 7. Health Hazard Data

Routes of Entry:	Eyes X	Inhalation X	Skin X	Ingestion X
Health hazard (Acute & Chronic):	Large doses can cause nausea, vomiting, diarrhea, abdominal burning, and cramps. Circulatory, respiratory, nervous complaints, and skin rashes may occur.			
Carcinogenicity:	None	NTP	IARC Monographs	OSHA Regulated

SECTION 8. First Aid Measures

Ingestion: Give large quantities of water if patient is conscious. Induce vomiting and seek medical attention. **Skin:** Immediately wash area with soap or mild detergent and water. If chemical soaks through clothing, remove clothing and wash. If irritation persists after washing, seek medical attention. **Eyes:** Immediately flush with plenty of water for at least 15 minutes. Get medical attention. **Inhalation:** Move to fresh air.

SECTION 9. Precautions for Safe Handling & Use

Steps to be taken in case material is released or spilled, if spilled, steps should be taken to contain spill. Clean area of spill immediately. Follow protective measures provided under Control Measures in Section 9. **Precautions to be taken in handling or storing:** For best product performance store in cool, dry area. Prevent from freezing. **Other Precautions:** Keep out of the reach of children.

SECTION 10. Control Measures

Respiratory Protection (Specify Type): Single use dust respirator. **Ventilation:** Local Exhaust; NA **Special:** NA **Mechanical (General):** NA **Other:** NA **Protective Gloves:** Required **Eye Protection:** Required

SECTION 11. Toxicological Information

LD50=800mg/kg (oral rat)

SECTION 12. Ecological Information

There is no data available for this product.

SECTION 13. Disposal Considerations

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

SECTION 14. Transportation Information

Hazardous Class: 4.1 **Packaging group:** III **UN2713 DOT Shipping Class:** 55

SECTION 15. Regulatory Information

We request that you make all information in this Material Safety Data Sheet available to all employees.

SARA /TITLE III HAZARD CATEGORIES: If the word "yes" appears next to any category, this product may be reportable by you under the requirements of 40 CFR 370. Please consult those regulations for details. **Immediate (Acute) Health:** Yes

Delayed (Chronic) Health: Yes **Fire Hazard:** No **Reactive Hazard:** Yes **Sudden Release of Pressure:** No

HMIS HAZARD RATINGS: Health Hazard: 1 **Fire Hazard:** 1 **Reactivity:** 2

INTERNATIONAL REGULATIONS: Consult the regulations of the importing country.

SECTION 16. Other Information

MSDS LEGEND: CAS = Chemical Abstracts Service Registry Number

Ceiling Limit = Ceiling Limit (15 Minutes) OSHA = Occupational Safety and Health Administration

TLV = Threshold Limit Value (ACGIH) ACGIH = American Conference of Governmental Industrial Hygienists

IMPORTANT: The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the user. No suggestions for use are intended as, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any federal, state, or local laws, rules, regulations or ordinances.