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 fisher safety fisher life science bioreagent catalog
 inventory clearance center

login

catalogs

ordering

what's new

about us

suppliers

support

sitemap

help

home


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[Paraformaldehyde \(Laboratory\)](#) | [Paraformaldehyde \(Laboratory\)](#) | [MSDS](#)

Material Safety Data Sheet Paraformaldehyde

ACC# 18000

Section 1 - Chemical Product and Company Identification

MSDS Name: Paraformaldehyde**Catalog Numbers:** O4042 500, O4042-500, O4042500, O4042500001, S70102, S80114, T3 T353500**Synonyms:** Flo-mor; Formagene; Paraforasn; Triformol; Trioxymethylene**Company Identification:**

Fisher Scientific
 1 Reagent Lane
 Fairlawn, NJ 07410

For information, call: 201-796-7100**Emergency Number:** 201-796-7100**For CHEMTREC assistance, call:** 800-424-9300**For International CHEMTREC assistance, call:** 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
30525-89-4	Paraformaldehyde	95%

Hazard Symbols: T**Risk Phrases:** 23/24/25 43

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white. Flash Point: 160 deg F. **Danger!** May cause allergic res reaction. May cause allergic skin reaction. Corrosive. May be absorbed throug eye and skin burns. Causes digestive and respiratory tract burns.

Target Organs: None.

Potential Health Effects

Eye: May result in corneal injury. May cause eye irritation and possible burns.

Skin: May be absorbed through the skin in harmful amounts. Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause hives. May cause severe skin irritation with possible burn if wet or moist.

Ingestion: Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Symptoms may include: headache, excitement, fatigue, nausea, vomiting, stupor, and coma. May cause severe irritation with abdominal pain, nausea, vomiting and diarrhea.

Inhalation: May cause severe irritation of the upper respiratory tract with pain, burns, and inflammation. May cause lung damage. May cause anosmia (loss of smell). Inhalation of high concentrations may cause chronic bronchitis.

Chronic: Prolonged or repeated eye contact may cause conjunctivitis. Repeated inhalation may cause chronic bronchitis. Prolonged or repeated exposure may cause permanent eye damage.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper eyelid to ensure thorough irrigation. Get medical aid immediately.

Skin: Get medical aid immediately. Rinse area with large amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Do not give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen.

Notes to Physician: Inhalation of high concentrations can cause pulmonary edema. Treatment includes gastric lavage with water or saline until clear followed by activated charcoal with saline. Treat exposed person for anion-gap acidosis. Concurrently monitor blood methanol levels. Follow up to remove formic acid. (Genium MSDS 492, Rev. A, July 91)

Section 5 - Firefighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand mode (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form with air. Combustion generates toxic fumes.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Autoignition Temperature: 572 deg F (300.00 deg C)

Flash Point: 160 deg F (71.11 deg C)

NFPA Rating: health-3; flammability-1; reactivity-0 Explosion Limits, Lower: 7.00 Upper: 73.0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up, then place into a suitable container for disposal. Avoid generating dust. Remove all sources of ignition.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Use only in a well-ventilated area. Avoid contact with skin or in eyes. Avoid ingestion and inhalation. Wash clothing before reuse.

Storage: Keep away from heat and flame. Store in a cool, dry place. Keep containers tightly closed.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OS
Paraformaldehyde	none listed	none listed	

OSHA Vacated PELs: Paraformaldehyde: No OSHA Vacated PELs are listed for this chemi

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by O 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 29CFR 1910.134 or European. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: white

Odor: aldehyde-like

pH: 4-6

Vapor Pressure: 1.2 mm Hg

Vapor Density: 1.03

Evaporation Rate:

Viscosity: Not available.

Boiling Point: Decomposes

Freezing/Melting Point: 120 - 170 C

Decomposition Temperature: 260 deg C

Solubility: 250 g/l (20 C)

Specific Gravity/Density: 1.46 at 15xC

Molecular Formula: Polymer of CH₂O

Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Stable. However, may decompose if heated.

Conditions to Avoid: High temperatures, incompatible materials.

Incompatibilities with Other Materials: Strong acids; strong bases; acid anhydrides; brass; agents; strong reducing agents; steel. On contact with water, material decomposes to form for

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 30525-89-4: RV0540000

LD50/LC50:

CAS# 30525-89-4:

Oral, rat: LD50 = 800 mg/kg;

Carcinogenicity:

CAS# 30525-89-4: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: The epidemiological studies provide inadequate evidence to assess the carcinogenicity of formaldehyde in man.

Teratogenicity: No teratogenic effects were observed. The data were insufficient to assess the teratogenic potential of this compound.

Reproductive Effects: No embryotoxic effects were observed. The data were insufficient to assess the embryotoxic potential of this compound. Secondary sterility and menstrual disorders have been reported following formaldehyde exposure.

Neurotoxicity: No data available.

Mutagenicity: One positive and one negative study on the induction of dominant lethal mutati have been reported.

Other Studies: Allergic sensitization which can result in dermatitis or acu te or chronic respira associated with ex posure to formaldehyde.

Section 12 - Ecological Information

Ecotoxicity: Not available.

Environmental Fate: Not available.

Physical/Chemical: Not available.

Other: Not available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

RCRA D-Series Maximum Concentration ofContaminants: None listed.

RCRA D-Series Chronic Toxicity ReferenceLevels: None listed.

RCRA F-Series: None listed.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IM
Shipping Name:	PARAFORMALDEHYDE	No information available.	No information available.	No infor available.PARAFO
Hazard Class:	4.1			4.1(9.
UN Number:	UN2213			UN22
Packing Group:	III			III

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 30525-89-4 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 30525-89-4: final RQ = 1000 pounds (454 kg)

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 30525-89-4: acute, chronic, flammable.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

CAS# 30525-89-4 is listed as a Hazardous Substance under the CWA. None of the chemicals listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 30525-89-4 can be found on the following state right to know lists: California, New Jersey, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed. **Europe**

Regulations**European Labeling in Accordance with EC Directives****Hazard Symbols:**

T

Risk Phrases:

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R 43 May cause sensitization

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36/37/39 Contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).

WGK (Water Danger/Protection)

CAS# 30525-89-4: 2

Canada

CAS# 30525-89-4 is listed on Canada's DSL/NDSL List.

This product has a WHMIS classification of B4, D2B.

CAS# 30525-89-4 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits**Section 16 - Additional Information**

MSDS Creation Date: 3/06/1995

Revision #5 Date: 12/12/1997

The information above is believed to be accurate and represents the best information currently available to us. How of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

 help

Need help with a product? Send [email](#) to Fisher's customer service or call us at 1-800-766-