

Safety Data Sheet

Product No. 18501 Paraformaldehyde, EM Grade, Prill

Purified

Issue Date (12-31-13)

Review Date (01-09-15)

Section 1: Product and Company Identification

Product Name: Paraformaldehyde, EM Grade, Prill Purified

Synonym: Paraform, paraform polyoxymethylene, polyoxymethylene glycols.

Company Name

Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477

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Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.

Section 2: Hazard Identification

Classification of the substance or mixture

GHS Pictograms:



GHS Categories:

GHS02: flammable - Flam. Sol. 2 H228 Flammable solid.

GHS08: health hazard - Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

GHS07: Irritant

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation

Signal Word: Danger

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R20: Harmful by inhalation.

Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

Xn; Sensitizing

R42: May cause sensitisation by inhalation.

Information concerning particular hazards for human and environment: The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Label elements

Labeling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives /

Ordinance on Hazardous

Materials.

Code letter and hazard designation of product:

Xn Harmful

Hazard-determining components of labeling: Paraformaldehyde

Risk phrases:

20, Harmful by inhalation.

36/37/38, Irritating to eyes, respiratory system and skin.

42, May cause sensitisation by inhalation.

Safety phrases:

9, Keep container in a well-ventilated place.

22, Do not breathe dust.

45, In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

60, This material and its container must be disposed of as hazardous waste.

Health Effects:

NFPA Hazard Rating: Health: 2; Fire: 2; Reactivity: 0

HMIS® Hazard Rating: Health: 2; Fire: 2; Reactivity: 0

(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Emergency overview

Appearance: Solid colorless prill

Immediate effects: ND

Potential health effects

Primary Routes of entry: Inhalation, Ingestion, skin and eye contact.

Signs and Symptoms of Overexposure: ND

Eyes: Causes serious eye irritation.

Skin: Causes skin irritation.

Ingestion: Harmful if swallowed.

Inhalation: May cause respiratory irritation.

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: None listed

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	NTP	IARC	OSHA regulated
Paraformaldehyde (30525-89-4)	≤100	NE	NE	No	No	No

Section 4: First Aid Measures

If accidental overexposure is suspected

General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Eye(s) Contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Skin Contact: Immediately wash with water and soap and rinse thoroughly.

Inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

Ingestion: If symptoms persist consult doctor.

Note to physician

Information for doctor: Most important symptoms and effects, both acute and delayed:

No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: 70 °C

Flammable Limits: Lower: 7 Vol % Upper: 73 Vol %.

Ignition temperature: 300 °C

Auto-ignition point: Product is not self-igniting.

Fire Extinguishing Media: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Advice for firefighter: Use Protective equipment: Mouth respiratory protective device.

Special Fire Fighting Procedures: No further relevant information available.

Unusual Fire and Explosion Hazards: Product does not present an explosion hazard.

Hazardous combustion products: Oxides of carbon.

DOT Class: Flammable solid.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Do not allow to enter sewers/surface or ground water. Ensure adequate ventilation.

Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

Section 7: Handling and Storage

Precautions to be taken in Handling and Storage: Thorough de-dusting. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust Keep container tightly sealed. Protect from heat and direct sunlight.

Storage temperature: Room temperature.

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls

Ventilation required: Use in well ventilated work area.

Personal Protection Equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protective gloves: Wear protective gloves.

Skin protection: Wear gloves and protective clothing as required.

Eye protection: Tightly sealed goggles.

Additional clothing and/or equipment: ND

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Solid colorless prill.

Odor (threshold): Pungent (ND)

Specific Gravity (H₂O=1): 1.235 g/cm³

Vapor Pressure (mm Hg): ND

Vapor Density (air=1): NA

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): NA

Boiling Point: ND

Freezing point / melting point: 120 °C

pH: 3.5

Solubility in Water: Insoluble.

Solids content: 86.3 %

Solvent content: Organic solvents: 0.0 %, Water: 3.0 %

VOC (EC) 0.00 %

Molecular Weight: 30.03 g/mol

Section 10: Stability and Reactivity

Stability: Stable under recommended storage conditions.

Conditions to Avoid: Exposure to moisture. Heat, flames and sparks. Extremes of temperature and direct sunlight.

Materials to Avoid (Incompatibility): Brass, Steel (all types and surface treatments), Copper, Acid anhydrides, Strong oxidizing agents, Strong reducing agents

Hazardous Decomposition Products: No dangerous decomposition products known.

Hazardous Polymerization: No dangerous reactions known.

Section 11: Toxicological Information

Results of component toxicity test performed: Acute toxicity:

LD/LC50 values relevant for classification: 30525-89-4 Paraformaldehyde.

Oral LD50 800 mg/kg (Rat), Dermal LD50 10000 mg/kg (rabbit), Inhalative LC50/4 h 1070 mg/l (Rat)

Primary irritant effect:

On the skin: Irritant to skin and mucous membranes.

On the eye: Irritating effect.

Sensitization: Sensitization possible through inhalation.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful, Irritant.

Human experience:

Liver - Irregularities - Based on Human Evidence

Liver - Irregularities - Based on Human Evidence

Carcinogenic categories:

IARC (International Agency for Research on Cancer): None of the ingredients is listed.

NTP (National Toxicology Program): None of the ingredients is listed.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

This product does not contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information

Ecological Information:

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information:

General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: ND

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14: Transportation Information

US DOT Information: Proper shipping name: Paraformaldehyde

Hazard Class: 3

Packaging group: III

UN Number: UN2213

IATA: Proper shipping name: Paraformaldehyde

Hazard Class: 3

Packing group: III

UN Number: UN2213

Marine Pollutant: No

Canadian TDG: Paraformaldehyde.

Section 15: Regulatory Information

United States Federal Regulations

MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA Title III: No chemicals in this material are subject to the reporting requirements of, Section 302.

RCRA: ND

TSCA: All ingredients are listed

CERCLA: Paraformaldehyde: RQ = 1000 lbs (454 Kg).

State Regulations

California Proposition 65:

Chemicals known to cause cancer: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.

Chemicals known to cause developmental toxicity: None of the ingredients is listed.

International Regulations

Canada WHMIS: Canadian Domestic Substances List (DSL): All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%): 30525-89-4, Paraformaldehyde.

Europe EINECS Numbers: ND

Section 16: Other Information

Label Information: Flammable solid, Health Hazard, Irritant.

European Risk and Safety Phrases: See Section 2

European symbols needed: X_n Harmful

Canadian WHMIS Symbols:

B4 - Flammable solid.

D2A - Very toxic material causing other toxic effects.

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.