

SAFETY DATA SHEET

PARAFORMALDEHYDE

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: 1-905-466-3832
Chemical Name: Paraformaldehyde
Catalog Number: PAR070

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification:

Flammable solids (Category 2)
Acute toxicity (Category 4)
Acute toxicity, inhalation (Category 4)
Skin irritation (Category 2)
Serious eye damage (Category 1)
Skin sensitization (category 1)
Germ cell mutagenicity (category 2)
Carcinogenicity (Category 3)

Pictogram:



Signal word: Danger

Hazard statement:

H228 Flammable solid
H302+H332 harmful if swallowed or if inhaled
H315 causes skin irritation
H317 May cause allergic skin reaction
H318 Cause serious eye damage
H335 May cause respiratory irritation
H341 Suspected of causing genetic defects
H351 Suspected of causing cancer
H412 Harmful to aquatic life with long lasting effects

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.

P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the work-place.

P273 Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+p330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off all contaminated clothing. Rinse skin with water.
P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.
P308 +P313 IF exposed or concerned: Get medical advice/ attention.
P403+P233 store in a well ventilated place. Keep container tightly closed.
P501 Dispose of contents/ container to an approved waste disposal plant.

Eyes: Causes eye burns.

Skin: causes skin burns.

Inhalation: may cause respiratory tract burns.

Ingestion: Harmful if swallowed. Causes s burns..

CHRONIC HEALTH HAZARDS:

Corrosive. Harmful If swallowed. Causes severe eye and skin Irritation.

SECTION 3 COMPOSITION/ INGREDIENTS

CAS #	%
Paraformaldehyde 30525-89-4	90-100%

Molecular Formula: HO(CH₂O)_nH

Molecular Weight: 30.03 g/mol .

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. GET MEDICAL ATTENTION

Skin: In case of contact, flush area immediately with soap and water while removing contaminated clothing and shoes. Wash clothing before reuse. Discard contaminated clothing in a manner which limits further exposure. GET MEDICAL ATTENTION.

Inhalation: GET MEDICAL ATTENTION IMMEDIATELY. Remove from exposure to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: If swallowed wash mouth out with water if person is conscious. GET MEDICAL ATTENTION. > Do Not induce vomiting.

SECTION 5 FIRE FIGHTING MEASURES

Physical State: powder

Appearance/odor: white, formaldehyde smell.

pH: N/A

Vapor density: 1.03

Vapor pressure: 5 mmHg

Viscosity: N/A

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Freezing /Melting pt.: 170C
Boiling pt.: decomposes
Decomposition temp: 260C
Solubility: slightly soluble in water.
Specific Gravity: 1.46

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with inert absorbent material. Sweep and place in a closed container. Keep containers upright to prevent further leakage. Dispose accordingly.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Keep away from sources of ignition

Storage Conditions: Room temperature. Keep container tightly closed in a dry well-ventilated area. Store as Flammable solid hazardous materials

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:
Not available

Use adequate ventilation. AVOID CONTACT with clothing, skin and eyes..
Wear appropriate protective equipment to prevent eye and skin exposure.
Wear appropriate respirator to prevent lung irritation.

Personal Protection: Lab coat, safety goggles, rubber gloves.

Ventilation: Local exhaust systems. Use fume hood

Respiratory protection: use OSHA/MSHA approved respirator.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: crystalline solid

Appearance and Odor: pungent odor

Freezing/Melting Point: 120-170° C

Boiling Point: N/A

Specific Gravity: 0.88g/cm3

Vapor Density: N/A

Water Solubility: soluble

pH: 4-5.5.

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure

Conditions to avoid: dust generation, heat, flames and sparks

Incompatibility: Brass, Steel, acid anhydrides, strong oxidizing agents, strong reducing agents.

Hazardous Decomposition Products:, carbon oxides

Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

Draize, rabbit, eye: 100mg severe

Inhalation rat LC50=1070mg/m3/4h

Oral, rat: LC50= 800mg/kg

CAS# 50-00-0

Oral mouse: LD50=42mg/kg

Inhalation, rat LC50=250 ppm/2H

Inhalation mouse: LC50= 505 mg/m3/2H

Draize rabbit, eye: 750 ug/24h Severe.

Skin corrosion/irritation:

not available

Serious eye damage/eye irritation:

Eyes, rabbit, severe eye irritation

Epidemiology: No data available

Teratogenicity: No data available

Reproductive Effects: No data available

Neurotoxicity: No data available

Mutagenicity: In vitro tests showed mutagenic effects.

Carcinogenicity:

The decomposition product- Formaldehyde has been listed as a carcinogen by NTP and IARC

To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity:

LC50 , Daphnia-42mg/L- 24hr.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

TDG Canada)

UN number: 2213 Class 4.1 Packing group: III

Proper shipping name: PARAFORMALDEHDYE

IMDG

UN number: 2213 Class 4.1 Packing group: III EMS-No: F-A, S-G

Proper shipping name: PARAFORMALDEHDYE

IATA

UN number: 2213 Class 4.1 Packing group: III

Proper shipping name: PARAFORMALDEHDYE

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SECTION 15 REGULATORY INFORMATION

US: TSCA: listed

European/International: N/A

Canada: as listed previously

SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Dec 29/2021

Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.