

Section 1: Identification
Product Name Formaldehyde Solution, USP

Commercial Name Not available.

Product Use Laboratory cleaning

Restrictions On Use Not available.

Product Code 50-3097

Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:

CHEMTREC (24hr) 1-800-424-9300
Section 2: Hazard(s) Identification
OSHA Haz Com: Acute toxicity - Oral Category 3 Acute toxicity - Dermal Category 3 Acute toxicity - Inhalation (Gases)
CFR 1910.1200 Category 3 Acute toxicity - Inhalation (Vapors) Category 3 Acute toxicity - Inhalation (Dusts/Mists)
Category 3 Skin corrosion/irritation Category 1 Sub-category B Serious eye damage/eye irritation
Category 1 Skin sensitization Category 1A Carcinogenicity Category 1A Reproductive toxicity Category 2
Specific target organ toxicity (single exposure) Category 1 Specific target organ toxicity (repeated exposure)
Category 1 Flammable liquids Category 3

Signal Word DANGER

Hazard Statement(s) Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes severe skin burns and eye damage.
May cause an allergic skin reaction. May cause cancer. Suspected of causing genetic defects. Causes
damage to organs. Causes damage to organs through prolonged or repeated exposure. Flammable liquid
and vapor.

Pictogram(s) or Symbol(s)

Precautionary Statement(s):
Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and
understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands
and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of
the workplace Do not breathe dust/fume/gas/mist/vapors/spray Keep away from heat, hot surfaces,
sparks, open flames and other ignition sources. No smoking Keep container tightly closed
Ground/bond container and receiving equipment Use explosion-proof electrical/ ventilating / lighting / ?
/ equipment Use only non-sparking tools Take precautionary measures against static discharge Keep
cool

Response

Specific treatment (see .? on this label) Immediately call a POISON CENTER or doctor Specific
treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or
doctor Call a POISON CENTER or doctor if you feel unwell IF ON SKIN (or hair): Take off immediately
all contaminated clothing. Rinse skin with water/ shower Wash contaminated clothing before reuse If
skin irritation or rash occurs: Get medical advice/attention IF INHALED: Remove person to fresh air
and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED:
Immediately call a POISON CENTER or doctor Rinse mouth Do NOT induce vomiting In case of fire:

Storage

Use CO2, dry chemical, or foam to extinguish

Disposal

Store locked up. Store in a well-ventilated place. Keep container tightly closed

Dispose of contents/container to an approved waste disposal plant



Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Formaldehyde Solution, USP

50-3097

Section 3: Composition/Information on Ingredients

Substance/Mixture	Mixture
Components	Formaldehyde Solution, Methanol and Water
% By Weight	25-50, 10-20 and 20-30
CAS#	50-00-0, 67-56-1 and
Molecular Weight	30.03 g/mole
Chemical Formula	HCHO
Synonym(s)	Not available.

Mixtures				
Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Formaldehyde Solution	50-00-0	25-50	TWA: 2 STEL: 0.3 (ppm) TWA: 3 (mg/m ³)	ORAL (LD50): Acute: 100 mg/kg [Rat]. 42 mg/kg [Mouse]. DERMAL (LD50): Acute: 270 mg/kg [Rabbit]. VAPOR (LC50): Acute: 287.1 ppm 4 hour(s) [Rat].
Methanol	67-56-1	10-20		
Water	7732-18-5	20-30		

Section 4: First-Aid Measures

Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention. Immediate medical attention is required.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention. May cause an allergic skin reaction.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
Symptoms/Effects	
Acute	Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.
Delayed	Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.

Immediate Medical Attention

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not breathe vapor or mist. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitization in susceptible persons. Treat symptomatically.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO₂). water spray. Alcohol resistant foam. Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable Extinguishing Media

Do not scatter spilled material with high pressure water streams.

Products of Combustion

Carbon monoxide. Carbon dioxide (CO₂)

Firefighters Special Equipment and Precautions

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May cause sensitization by skin contact. Sensitivity to static discharge yes. Special protective equipment for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental Release Measures

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Attention! Corrosive material. Do not breathe vapor or mist. Methods for containment: Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Methods for cleaning up: Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

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Section 7: Handling and Storage

Handling: Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not breathe vapor or mist. Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children. Store locked up. Protect from moisture. Store away from other materials

Section 8: Exposure Controls/Personal Protection**Exposure Limits**

Formaldehyde 50-00-0: ACGIH: No data available OSHA PEL: 0.75 ppm TWA, 2 ppm STEL NIOSH IDLH: 20 ppm IDLH Methyl Alcohol 67-56-1 ACGIH: No data available OSHA PEL: 200 ppm TWA, 260 mg/m³ TWA NIOSH IDLH -

Engineering Controls

Showers Eyewash stations Ventilation systems

Personal Protection

Eye/face protection: Tight sealing safety goggles. Face protection shield. Hand protection: Wear suitable gloves. Impervious gloves. Skin and body protection: Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots. Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. General hygiene considerations: Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Do not breathe vapor or mist.

Section 9: Physical and Chemical Properties

Appearance	Liquid. Color: Clear. Colorless		
Odor	Pungent.		
Odor Threshold	Not available		
Melting Point	Not available	pH	Not available
Freezing Point	-15 °C / 5 °F	Vapor Pressure	2.2 - 2.4
Boiling Point/Range	96 - 98 °C / 204.8 - ;	Vapor Density	1.03 - 1.04
Decomposition temperature	Not Available	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not Available	Evaporation Rate	Not Available
Flash Point	50 - 60 °C / 122 - 14	Autoignition temperature	424 - 430 °C / 795.2 - 806
Flammability	Not Available	Flammability or Explosive Limits:	
		Lower	Not available
		Upper	Not available.
Solubility(ies)	Soluble in water.		
Other	Soluble in hot alcohol Soluble in Benzene Soluble in Acetone Soluble in Ether Relative density 1.06 - 1.09 Molecular weight 30.03		

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Stable under normal conditions
Hazardous Polymerization	None under normal processing
Conditions to Avoid	Heat, flames and sparks. Exposure to air or moisture over prolonged periods. Excessive heat.
Incompatible Materials	Acids. Bases. Oxidizing agent.
Hazardous Decomposition Products	Not available.

Section 11: Toxicological Information
RTECS LP8925000

Acute Toxicity

ATEmix (inhalation-gas) 1,505.40 ppm ATEmix (inhalation-vapor) 6.45 mg/l Oral LD50: Water 7732-18-5 90 mL/kg (Rat) Formaldehyde 50-00-0 500 mg/kg (Rat) Methyl Alcohol 67-56-1 5628 mg/kg (Rat) Dermal LD50: Methyl Alcohol 67-56-1 15800 mg/kg (Rabbit) Inhalation LC50: Formaldehyde 50-00-0 0.578 mg/L (Rat) 4 h Methyl Alcohol 67-56-1 83.2 mg/L (Rat) 4 h

Skin Corrosion/Irritation

Causes burns

Serious Eye Damage/Irritation

Risk of serious damage to eyes. Causes burns

Respiratory or Skin Sensitization

May cause sensitization by skin contact.

Germ Cell Mutagenicity

Not available.

Carcinogenicity

Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

Reproductive Toxicity

Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.

Routes of Entry

Inhalation. Eye. Skin. Ingestion.

Symptoms Related to Exposure

Redness. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes. Hives. Difficulty in breathing.

Potential Health Effects

Causes damage to organs if swallowed. Causes damage to organs in contact with skin. Causes damage to organs if inhaled.

Target Organ(s) Causes damage to organs through prolonged or repeated exposure. respiratory system, Eyes, Skin, central nervous system.

Section 12: Ecological Information**Ecotoxicity**

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Persistence and Degradability

Not available.

Bioaccumulative Potential

Inherently biodegradable.

Mobility in Soil

Not available.

Other Adverse Effects

Not available.

Section 13: Disposal Considerations**Waste Disposal**

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Disposal of Container

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Other Considerations

Not available.

Section 14: Transport Information**DOT Classification**

UN/ID no UN1198 Proper Shipping Name: Formaldehyde solutions, flammable Hazard class 3 Subsidiary Class 8 Packing group: III Special Provisions 176, B1, IB3, T4, TP1 Marine Pollutant Severe Marine Pollutant Description: UN1198, Formaldehyde solutions, flammable, 3 (8), III Emergency Response Guide Number 132

Section 15: Regulatory Information**Regulations**

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TSCA Complies DSL/NDSL Complies EINECS/ELINCS Complies ENCS This product complies with ENCS: IECSC This product complies with China: KECL Complies PICCS Complies AICS All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS). SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Chemical name SARA 313 - Threshold Values % Formaldehyde - 50-00-0 0.1 Methyl Alcohol - 67-56-1 1.0 SARA 311/312 Hazard Categories Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. CWA (Clean Water Act) This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42). Chemical name CWA - Reportable Quantities CWA - Toxic Pollutants CWA - Priority Pollutants CWA - Hazardous Substances Formaldehyde 50-00-0 - - - Present CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302). Chemical name Hazardous Substances RQs Extremely Hazardous Substances RQs Formaldehyde 50-00-0 100 lb final RQ 45.4 kg final RQ - Methyl Alcohol 67-56-1 5000 lb final RQ 2270 kg final RQ - US State Regulations California Proposition 65 This product contains the following Proposition 65 chemicals:. Chemical name California Proposition 65 Formaldehyde - 50-00-0 carcinogen Methyl Alcohol - 67-56-1 developmental toxicity U.S. State Right-to-Know Regulations Chemical name New Jersey Massachusetts Pennsylvania Formaldehyde 50-00-0 0946 Present Environmental hazard Special hazardous substance Methyl Alcohol 67-56-1 1222 Present Environmental hazard U.S. EPA Label Information EPA Pesticide Registration Number Not applicable

Other

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

Section 16: Other Information

Not available.