

Safety Data Sheet

Formaldehyde 37%

Revision Date 1/1/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Formaldehyde 37%, 9 to 14% Methanol
Product code: 400469, 400529

Supplier: EDM 3, LLC
3611 St Johns Bluff Road, Suite 1
Jacksonville, FL 32224
800-638-2625
Monday-Friday: 8:00 -5:00 PM

Synonym: None.
Material uses: Laboratory Reagent.
Validation date: 1/1/2020

In case of a medical emergency or a spill, call: INFOTRAC at 1-800-535-5053 (Domestic within the USA and Canada)
or 1-352-323-3500 (International callers may call collect), 24 hours/day,
7 days/week.

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Cancer Hazard, Flammable Liquid, toxic by inhalation and ingestion, toxic to skin, skin sensitizer and irritant

GHS Classification: Flammable Liquid (Cat 4), Acute Toxicity, Oral (Cat 4), Skin Irritation (Cat 2), Serious Eye Damage (Cat 1), Skin Sensitizer (Cat 1), Carcinogenicity (Cat 1), Specific Target Organ Toxicity (Cat 1)

GHS Label Elements: Pictogram



Safety Word: Danger!

Hazardous Statement(s)

H302; Harmful if swallowed (Cat 4)
H315; Causes skin irritation (Cat 2)
H317; Causes an allergic skin reaction (Cat 1)
H318; Causes serious eye irritation Cat 2)
H341; Suspected of causing genetic defects (Cat 2)
H350; May cause cancer (Cat 1)
H370; May cause damage to organs (Cat 2)

Precautionary Statement(s)

P260; Do not breathe gas/vapors
P264; Wash skin thoroughly after handling product
P280; Wear protective gloves/protective clothing/eye protection/ face protection
P301; IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

HMIS Classification

Health hazard: 3
Flammability: 2

Physical hazards: 0

NFPA Rating

Health hazard: 3

Fire: 2

Reactivity Hazard: 0

Potential Health Effects

Inhalation - May be harmful if inhaled. Causes respiratory tract irritation and central nervous system effects.

Skin - May be harmful if absorbed through skin. Causes skin burns.

Eyes - Causes eye irritation/burns.

Ingestion - Harmful if swallowed. Cause burns, blindness, CNS effects, liver and kidney effects

Target Organs

Eyes, Kidney, Liver, Heart, Skin, Spleen, Blood, Respiratory and Central Nervous System (CNS)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	%
Formaldehyde	50-00-0	~37 w/v
Methyl Alcohol	67-56-1	~ 9 to14 w/v
Water	7732-18-5	~46 w/v

4. FIRST AID MEASURES

Notes To Physician: Treat Symptomatically

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash Point: ~50°C Flammable Limits in Air, Lower 7% formaldehyde/5.5% methanol; Upper 73% form/37% meth

Extinguishing media: Water spray, dry chemical, CO₂ and foam for alcohol

Special exposure hazards: Promptly isolate the scene by removing all personnel from the vicinity. Trained personnel must wear full protective equipment.

Special protective equipment for fire-fighters: Wear protective clothing with NIOSH approve breathing apparatus. Product of combustion may be harmful in a fire situation. Do not use direct water stream.

Special remarks on explosion hazards: May emit toxic fumes under fire conditions

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ventilate area and eliminate sources of ignition. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Note: see section 1 for emergency contact information and section 13 for waste disposal. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container

7. HANDLING AND STORAGE

Handling:

Danger! Flammable Liquid, Corrosive Liquid, Cancer Hazard, Toxic

Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator. Keep storage container tightly closed. Do not reuse container.

Storage:

Store in accordance with local regulations. Store in a segregated and approved area in original container, protected from direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits.

Engineering measures:

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Formaldehyde CAS 50-00-0 OSHA PEL 0.75ppm, 2ppm STEL; ACGIH 0.3ppm
Methanol CAS 67-56-1, OSHA PEL 200ppm; ACGIH, STEL 250ppm, TWA 200ppm

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection**Respiratory:**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles

Skin:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Liquid

Color:

Colorless

Odor:

Characteristic formaldehyde, pungent

pH:

~2.8

Boiling/condensation point:

~213° F

Melting/freezing point:

Not available.

Relative density:

1.08 (9.01 lb/gallon)

Vapor pressure:

1.3 mm Hg Not available.

Vapor density:

Not available.

Odor threshold:

Not available.

Evaporation rate:

0.36 (Water) compared with(n-Butyl Acetate =1)

Solubility:

Soluble in the following materials: water

10. STABILITY AND REACTIVITY

Chemical stability:

The product is stable under normal conditions.

Possibility of hazardous

reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous polymerization: Low temperatures will form paraformaldehyde, Non-hazardous
Conditions to avoid: Excessive heat, sparks and open flame.
Hazardous decomposition Oxides of carbon when under fire conditions

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure: Skin, Eyes and Respiratory Tract

Ingestion: May cause pain, nausea, vomiting and diarrhea. Lower doses may decrease body temperature, pain in digestive tract, shallow respiration, weak pulse unconsciousness and death.

Skin: May cause skin irritation, scaling, cracking with redness, pain and including allergic skin reaction

Inhalation: Vapor could be toxic, cause severe irritation and sensitization. Symptoms include a burning sensation, coughing, shortness of breath, nausea, headache or dizziness. Severe over-exposure may produce lung damage, or choking or death.

Eye Contact: Vapors may cause eye irritation, pain and blurred vision.

Carcinogenicity: Formaldehyde; IARC, Listed; NTP, Known or suspect carcinogen; ACGIH, Confirmed or suspect Carcinogen; OSHA, select or possible select carcinogen.

Mutagenicity: Have occurred in some humans. Lab animal studies suggest formaldehyde is mutagenic.

Teratogenicity: No known significant effects or critical hazards except possibly in laboratory animals.

Reproductive: No known significant effects or critical hazards except possibly in laboratory animals.

Acute toxicity; Oral LD50 NA, Inhalation LC50 NA, Dermal LD50 NA,

12. ECOLOGICAL INFORMATION

Environmental effects: Release into the air, formaldehyde has a half-life of less than one day. Readily biodegradable
Other adverse effects: No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations. Unused product for HW disposal is code U122

14. TRANSPORT INFORMATION

DOT UN 2209, Formaldehyde Solution, 8, III (Ltd Qty <1.3 Gallon)

IATA UN 1198, Formaldehyde Solutions, Flammable, 8, III

15. REGULATORY INFORMATION

Formaldehyde CERCLA/SARA Hazardous Substance RQ 100lbs, 302/313 is listed on TSCA (formaldehyde is NL on TSCA), FORMA, DSL, PICCS, ENCS, AICS, China and KECL inventory. Methanol CERCLA/SARA Hazardous Substance RQ 5000 lbs, is listed for SARA 313 and CAA hazardous air pollutant.

SARA 311/312 Hazardous Categorization: Acute Health Hazard, Yes; Chronic HH, Yes; Fire Hazard, Yes; Sudden Release of Pressure and Reactive Hazard, No

CWA: Formaldehyde is listed as hazardous substance.

CAA: Formaldehyde and methanol is listed HAPS Data

OSHA Hazards: Formaldehyde 2 ppm STEL, 0.75 ppm TWA, highly hazardous material TQ 1000lbs

CERCLA/SARA 302: Listed SARA Title III, Section 302.

SARA 313: This material does contain formaldehyde and is subject to the reporting requirements of SARA 313 Emissions Reporting.

Formaldehyde, CAS 50-00-0, Methanol CAS 67-56-1

California Proposition 65, Listed: This product contains a chemical known to cause cancer

Florida Substance List, Listed

Massachusetts Right To Know Components, Listed

Minnesota Hazardous Substance List, Listed

New Jersey Right To Know Components, Listed

Pennsylvania Right To Know Components, Listed

Rhode Island Hazardous Substance List, Listed

US Department of Homeland Security

Formaldehyde, Standard 12500 lbs (Solution)

Other International Regulations

Mexico – Grade 1, Slight Risk

Canada WHMIS Hazardous Class; B3 Combustible Liquid, D1A/ D2A Very Toxic Materials
D2B Toxic Material, E Corrosive material

16. OTHER INFORMATION

National Fire Protection Association (U.S.A.)



Notice to reader

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide.
EDM3 shall not be liable for any damage resulting from handling or contact with this product.