

# **SAFETY DATA SHEET**

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifiers

Product name Formaldehyde 4%

CAS number See section 3

Synonyms N/A

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

## 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

# 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Toxicity - Oral Category 4
Acute Toxicity - Dermal Category 3
Acute Toxicity - Inhalation Category 3
Skin Corrosion / Irritation Category 2
Eye Damage / Irritation Category 1
Respiratory Sensitizer Category 1
Skin Sensitizer Category 1
Germ Cell Mutagenicity Category 1
Carcinogenicity Category 1
Reproductive Toxicity Category 1
Specific Target Organs/Systemic Toxic

Specific Target Organs/Systemic Toxicity Following Single Exposure Category 1 Specific Target Organs/Systemic Toxicity Following Repeated Exposure Category 1 Hazardous to the Aquatic Environment (Acute) Category 3

# 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word Danger

Hazard statements H302 Harmful if swallowed.

H311 Toxic in contact with skin. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H402 Harmful to aquatic life.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe fumes, mist, vapors, or spray.

P261 Avoid breathing fumes, mist, vapors, or spray.

P264 Wash arms, hands and face thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection.

P285 In case of inadequate ventilation wear respiratory protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P304+P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P307+P311 IF exposed: Call a POISON CENTER or physician.

P308+P313 IF exposed or concerned: Get medical attention.

P310 Immediately call a POISON CENTER or physician.

P311 Call a POISON CENTER or physician.

P312 Call a POISON CENTER or physician if you feel unwell.

P314 Get medical attention if you feel unwell.

P321 Specific treatment (Wash areas of contact with water).

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or physician.

P361 Take off immediately all contaminated clothing and wash it before reuse.

P362 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents in accordance with local, state, federal and international regulations.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

# **SECTION 3: Composition/information on ingredients**

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	-	7732-18-5	> 95%
Formaldehyde	-	50-00-0	>= 1 - < 5 %

Methyl Alcohol	-	67-56-1	>= 1 - < 3 %
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#### **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

**General advice** Show this sheet to a doctor if medical advice is needed.

If INHALED: If breathing is difficult, remove person to fresh air and keep

comfortable for breathing.

In case of skin contact

IF ON SKIN: Wash with plenty of soap and water. May cause irritation and

dermatitis.

In case of eye

contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva.

If SWALLOWED: Call a POISON CENTER or physician if you feel unwell.

Dilute immediately with water or milk. Induce vomiting. Call a physician.

# 4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Contains Formaldehyde, a suspected carcinogen. Irritating to the eyes, respiratory system and skin. May cause sensitization by inhalation or skin contact. May be fatal if ingested. If ingested, give large quantity of water and induce vomiting. Call a physician. Wash areas of contact with water. If inhaled, remove to fresh air. Contains a chemical known to the state of California to cause cancer. EYE CONTACT: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva. SKIN CONTACT: May cause irritation and dermatitis.

# 4.3 Indication of any immediate medical attention and special treatment needed

Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops. Dilute immediately with water or milk. Induce vomiting. Call a physician.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

**Suitable extinguishing media** Use any means suitable for extinguishing surrounding fire.

Unsuitable extinguishing media None identified.

# 5.2 Specific hazards arising from the substance or mixture

Not considered to be a fire or explosion hazard.

## 5.3 Special protective equipment and precautions for firefighters

Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### 5.4 Further information

Flash Point No data available.

**Autoignition Temperature** No data available.

**Explosion limits** 

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No data available.

Sensitivity to Static Discharge No data available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

## 6.2 Environmental precautions

Avoid release into the environment.

# 6.3 Methods and materials for containment and cleaning up

Ventilate area of leak or spill. Absorb with suitable material and save for proper disposal.

# 6.4 Reference to other sections

Refer to protective measures listed in Sections 7 and 8. See section 13 for proper disposal.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Use with adequate ventilation.

## **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

# Storage conditions

Store locked up. Protect from freezing and physical damage. Store at room temperature.

## Incompatibilities

Strong oxidizing agents, alkalis, acids, phenols, urea.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Occupational exposure limits

# US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Formaldehyde	PEL STEL	0.75 ppm 2 ppm
Methanol	TWA STEL	200 ppm 250 ppm

#### **US. ACGIH Threshold Limit Values**

Component	Type	Value
Formaldehyde	TWA STEL	0.1 ppm 0.3 ppm
Methanol	TWA STEL	200 ppm 250 ppm

## **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Туре	Value
Formaldehyde	TWA C	0.016 ppm 0.1 ppm
Methanol	TWA ST	200 ppm 250 ppm

#### **Biological occupational exposure limits**

No information available.

# 8.2 Exposure controls

#### Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face

## Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal

#### **Body Protection**

Protective clothing

## **Respiratory protection**

required when vapours/aerosols are generated.

## Control of environmental exposure

Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Liquid

Appearance Clear, colorless
Odor No data available
Odor Threshold No data available
pH No data available
Melting Point/Range Approximately 0°C

Boiling Point/Range Approximately 100°C - Approximately 100°C

Miscible

Evaporation Rate No data available Flammability (solid) No data available

Flammability or explosive limit

Upper No data available
Lower No data available
Vapor Pressure No data available
Vapor Density No data available

Density 1.0

Partition coefficient: No data available

n-octanol/water

Solubility

Autoignition Temp

Decomposition Temp

No data available

Molecular Formula

Molecular Weight

No data available

VOC Content(%)

No data available

# 9.2 Other safety information

No information available.

## **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

Stable under normal conditions of use and storage.

# 10.2 Chemical stability

Stable under normal conditions of use and storage.

# 10.3 Possibility of hazardous reactions

Data not available.

#### 10.4 Conditions to avoid

Incompatabilities. Freezing temperatures.

# 10.5 Incompatible materials

Strong oxidizing agents, alkalis, acids, phenols, urea.

# 10.6 Hazardous decomposition products

Data not available.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

## **Product Information, Component Information**

## **Acute toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Formaldehyde	Rat: 100 mg/kg	rabbit: 270 uL/kg	Rat: 203 mg/m3

#### Skin corrosion/irritation

Causes skin irritation. Wash arms, hands and face thoroughly after handling.

# Serious eye damage/eye irritation

Causes serious eye damage. Wear protective gloves and eye protection.

## Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Avoid breathing fumes, mist, vapors, or spray. Contaminated work clothing must not be allowed out of the workplace.

## Germ cell mutagenicity

May cause genetic defects. Obtain special instructions before use.

## Carcinogenicity

May cause cancer. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Formaldehyde	50-00-0	Group 1	Not listed	Not listed	Not listed	Not listed

## Specific target organ toxicity - single exposure

Causes damage to organs. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product.

## Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product.

## Reproductive toxicity

May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

#### **Chronic effects**

No information available.

#### 11.2 Additional Information

No informaion available.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Harmful to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

## 12.2 Persistence and degradability

No information available.

#### 12.3 Bio accumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

# DOT (US)

UN Number Not regulated Proper Shipping name Not regulated

Hazard Class None

Packaging Group Not regulated

Technical name Formaldehyde 4% Solution

#### **IMDG**

UN Number Not regulated Proper Shipping name Not regulated

Hazard Class None

Packaging Group Not regulated

Technical name Formaldehyde 4% Solution

#### **IATA**

UN Number Not regulated Proper Shipping name Not regulated

Hazard Class None

Packaging Group Not regulated

Technical name Formaldehyde 4% Solution

## **SECTION 15: Regulatory information**

# US federal regulations

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Formaldehyde: Listed.

## **CERCLA Hazardous Substance List (40 CFR 302.4)**

Formaldehyde : 100 lb RQ Methanol : 5,000 lb RQ

#### SARA 304 Emergency release notification

Formaldehyde: 100 lb RQ

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Formaldehyde: Listed.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

## SARA 302 Extremely hazardous substance

Formaldehyde: Listed.

#### SARA 311/312 Hazardous

Fire Hazard, Acute Health Hazard, Chronic Health Hazard.

# SARA 313 (TRI reporting)

Formaldehyde. CAS-No. 50-00-0. Methanol. CAS-No. 67-56-1.

## Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Formaldehyde: Listed.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Formaldehyde: 15,000 lb TQ

#### Safe Drinking Water Act

Formaldehyde: 100,000 lb RQ

# **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

## **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Formaldehyde: Listed.

## **US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

## US. Pennsylvania Worker and Community Right-to-Know Law

Formaldehyde: Listed. Methanol: Listed.

## **California Proposition 65**

Formaldehyde: Listed - Cancer. Methanol: Listed - Developmental.

## **SECTION 16: Other information**

Date of Issue: 6/12/2025

#### **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.