

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.21.2015

Page 1 of 8

## Formaldehyde, Lab Grade

### SECTION 1: Identification of the substance/mixture and of the supplier

**Product name:** Formaldehyde, Lab Grade

**Manufacturer/Supplier Trade name:**

**Manufacturer/Supplier Article number:** S25329

**Recommended uses of the product and restrictions on use:**

**Manufacturer Details:**

AquaPhoenix Scientific, Inc  
9 Barnhart Drive, Hanover, PA 17331  
(717) 632-1291

**Supplier Details:**

Fisher Science Education  
6771 Silver Crest Road, Nazareth, PA 18064  
(724)517-1954

**Emergency telephone number:**

Fisher Science Education Emergency Telephone No.: 800-535-5053

### SECTION 2: Hazards identification

**Classification of the substance or mixture:**

Acute toxicity (oral, dermal, inhalation), category 3  
Skin corrosion, category 1B  
Skin sensitization, category 1  
Germ cell mutagenicity, category 2  
Carcinogenicity, category 1B

**Hazard statements:**

Toxic if swallowed.  
Toxic in contact with skin.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Toxic if inhaled.  
Suspected of causing genetic defects.  
May cause cancer.

**Precautionary statements:**

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wash skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use personal protective equipment as required.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
IF ON SKIN: Wash with soap and water.

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.21.2015

Page 2 of 8

## Formaldehyde, Lab Grade

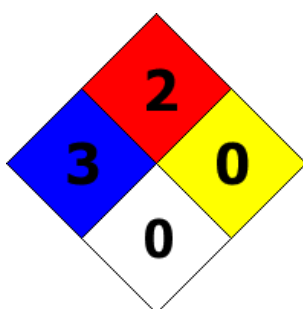
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If skin irritation or a rash occurs: Get medical advice/attention.  
IF exposed or concerned: Get medical advice/attention.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Specific treatment (see supplemental first aid instructions on this label).  
Call a POISON CENTER or doctor/physician.  
Rinse mouth.  
Remove/Take off immediately all contaminated clothing.  
Take off contaminated clothing and wash before reuse.  
Wash contaminated clothing before reuse.  
Store locked up.  
Dispose of contents and container to an approved waste disposal plant.

### Other Non-GHS Classification:

#### WHMIS



#### NFPA/HMIS



NFPA SCALE (0-4)

Health	3
Flammability	2
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

### SECTION 3: Composition/information on ingredients

Ingredients:		
CAS 7732-18-5	Water	48 %
CAS 50-00-0	Formaldehyde	37 %
CAS 67-56-1	Methanol	15 %

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.21.2015

Page 3 of 8

## Formaldehyde, Lab Grade

Percentages are by weight

### SECTION 4: First aid measures

#### Description of first aid measures

##### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

##### After skin contact:

Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.

##### After eye contact:

Protect unexposed eye. Rinse or flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Seek medical attention if irritation persists or if concerned.

##### After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person.

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

Irritation. Headache. Nausea. Shortness of breath.

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

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing agents:

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

##### Unsuitable extinguishing agents: None

#### Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

#### Advice for firefighters:

##### Protective equipment:

Wear protective eyewear, gloves, and clothing. Refer to Section 8.

##### Additional information (precautions):

Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

#### Environmental precautions:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

#### Methods and material for containment and cleaning up:

Wear protective eyewear, gloves, and clothing. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Sweep up and containerize for disposal. Avoid generating dust. Always obey local regulations. If

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.21.2015

Page 4 of 8

## Formaldehyde, Lab Grade

necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal.

**Reference to other sections:** None

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

#### Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

### SECTION 8: Exposure controls/personal protection



#### Control Parameters:

50-00-0, Formaldehyde, ACGIHTV 0.37 mg/m3.  
50-00-0, Formaldehyde, OSHA PEL: NA.  
67-56-1, Methanol, ACGIH TLV TWA: NA.  
67-56-1, Methanol, OSHA PEL: NA.

**Appropriate Engineering controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

**Respiratory protection:** Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

**Protection of skin:** Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

**Eye protection:** Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.

**General hygienic measures:** Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

### SECTION 9: Physical and chemical properties

<b>Appearance (physical state, color):</b>	Clear, colorless liquid.	<b>Explosion limit lower:</b> <b>Explosion limit upper:</b>	Not Determined Not Determined
<b>Odor:</b>	Pungent odor	<b>Vapor pressure:</b>	2 mbar @20C

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.21.2015

Page 5 of 8

## Formaldehyde, Lab Grade

<b>Odor threshold:</b>	Not Determined	<b>Vapor density:</b>	>1.0
<b>pH-value:</b>	3 - 4.2	<b>Relative density:</b>	1.083
<b>Melting/Freezing point:</b>	- 15C	<b>Solubilities:</b>	Material is water soluble.
<b>Boiling point/Boiling range:</b>	97C @ 760mmHg	<b>Partition coefficient (n-octanol/water):</b>	Not Determined
<b>Flash point (closed cup):</b>	50C	<b>Auto/Self-ignition temperature:</b>	Not Determined
<b>Evaporation rate:</b>	Not Determined	<b>Decomposition temperature:</b>	Not Determined
<b>Flammability (solid,gaseous):</b>	Not Determined	<b>Viscosity:</b>	a. Kinematic: Not Determined b. Dynamic: Not Determined
<b>Density:</b> Not Determined <b>Formaldehyde:</b> Molecular Weight: 30.02			

## SECTION 10: Stability and reactivity

### Reactivity:

Nonreactive under normal conditions.

### Chemical stability:

Stable under normal conditions.

### Possible hazardous reactions:

None under normal processing.

### Conditions to avoid:

Incompatible materials,excess heat. Keep away from open flames, hot surfaces and sources of ignition.

### Incompatible materials:

Strong oxidizers.

### Hazardous decomposition products:

Oxides of carbon.

## SECTION 11: Toxicological information

<b>Acute Toxicity:</b>		
<b>Oral:</b>	100mg/kg (Formaldehyde)	LD50 orl - rat
<b>Inhalation:</b>	203mg/kg (Formaldehyde)	LC50 inhalation - rat:
<b>Chronic Toxicity:</b> No additional information.		
<b>Corrosion Irritation:</b> No additional information.		

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.21.2015

Page 6 of 8

## Formaldehyde, Lab Grade

<b>Sensitization:</b>	No additional information.
<b>Single Target Organ (STOT):</b>	No additional information.
<b>Numerical Measures:</b>	No additional information.
<b>Carcinogenicity:</b>	No additional information.
<b>Mutagenicity:</b>	No additional information.
<b>Reproductive Toxicity:</b>	No additional information.

### SECTION 12: Ecological information

**Ecotoxicity:**

: No information available.

**Persistence and degradability:**

No information available.

**Bioaccumulative potential:**

No information available.

**Mobility in soil:**

No information available.

**Other adverse effects:**

No information available.

### SECTION 13: Disposal considerations

**Waste disposal recommendations:**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). 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. Ensure complete and accurate classification.

### SECTION 14: Transport information

**UN-Number:**

1198

**UN proper shipping name:**

Formaldehyde , Solutions

**Transport hazard class(es):** None

**Packing group:** III

**Environmental hazard:** None

**Transport in bulk:** Not Applicable

**Special precautions for user:** None

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.21.2015

Page 7 of 8

## Formaldehyde, Lab Grade

### SECTION 15: Regulatory information

#### United States (USA)

##### SARA Section 311/312 (Specific toxic chemical listings):

Acute, Chronic, Fire

##### SARA Section 313 (Specific toxic chemical listings):

67-56-1 Methanol.  
50-00-0 Formaldehyde.

##### RCRA (hazardous waste code):

50-00-0 Formaldehyde.  
67-56-1 Methanol.

##### TSCA (Toxic Substances Control Act):

None of the ingredients are listed.

##### CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

67-56-1 Methanol 5000 lbs.  
50-00-0 Formaldehyde 100 lbs.

#### Proposition 65 (California):

##### Chemicals known to cause cancer:

50-00-0 Formaldehyde.

##### Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

##### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

##### Chemicals known to cause developmental toxicity:

50-00-0 Formaldehyde.  
67-56-1 Methanol.

#### Canada

##### Canadian Domestic Substances List (DSL):

All ingredients are listed.

##### Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

##### Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

### SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages

## Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date :** 01.21.2015

Page 8 of 8

### Formaldehyde, Lab Grade

incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**GHS Full Text Phrases:** None

#### Abbreviations and Acronyms:

IMDGIInternational Maritime Code for Dangerous Goods.  
PNECPredicted No-Effect Concentration (REACH).  
CFRCode of Federal Regulations (USA).  
SARASuperfund Amendments and Reauthorization Act (USA).  
RCRResource Conservation and Recovery Act (USA).  
TSCAToxic Substances Control Act (USA).  
NPRINational Pollutant Release Inventory (Canada).  
DOTUS Department of Transportation.  
IATAInternational Air Transport Association.  
GHSGlobally Harmonized System of Classification and Labelling of Chemicals.  
ACGIHAMerican Conference of Governmental Industrial Hygienists.  
CASChemical Abstracts Service (division of the American Chemical Society).  
NFPANational Fire Protection Association (USA).  
HMISHazardous Materials Identification System (USA).  
WHMISWorkplace Hazardous Materials Information System (Canada).  
DNELDerived No-Effect Level (REACH).

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