



# HI-VALLEY CHEMICAL

## LABORATORY PRODUCTS

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**SDS**  
Hi Valley Chemical

### Formaldehyde 37%

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#### PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Formaldehyde 37%  
**SDS Number:** R-030  
**Product Code:** 513046-PT, 513046-QT, 513046-1, 513046-5, 513046-30, 513046-55  
**Revision Date:** 6/1/2016  
**Version:** 1  
**CAS Number:** 50-00-0

**Supplier Details:** High Valley Products, Inc.  
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#### HAZARDS IDENTIFICATION

##### Classification of Substance

###### GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Liquids, 4  
Health, Acute toxicity, 3 Oral  
Health, Acute toxicity, 3 Dermal  
Health, Skin corrosion/irritation, 1 B  
Health, Respiratory or skin sensitization, 1 Skin  
Health, Serious Eye Damage/Eye Irritation, 1  
Health, Acute toxicity, 3 Inhalation  
Health, Carcinogenicity, 2  
Health, Specific target organ toxicity - Single exposure, 1  
Environmental, Hazards to the aquatic environment - Acute, 3

##### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

H227 - Combustible liquid  
H301 - Toxic if swallowed  
H311 - Toxic in contact with skin  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H331 - Toxic if inhaled  
H351 - Suspected of causing cancer  
H370 - Causes damage to organs  
H402 - Harmful to aquatic life

**GHS Precautionary Statements:**

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.  
 P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
 P264 - Wash skin 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 should not be allowed out of the workplace.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+351+338 - IF IN EYES: Rinse continuously 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.  
 P322 - Specific measures (see \_ on this label).  
 P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.  
 P361 - Remove/Take off immediately all contaminated clothing.  
 P363 - Wash contaminated clothing before reuse.  
 P370+378 - In case of fire: Use \_ for extinction.  
 P403+233 - Store in a well ventilated place. Keep container tightly closed.  
 P403+235 - Store in a well ventilated place. Keep cool.  
 P405 - Store locked up.  
 P501 - Dispose of contents/container to \_

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients		
CAS#	%	Chemical Name
50-00-0		Formaldehyde 37%, 15% menthanol

### 4 FIRST AID MEASURES

**Inhalation:** If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.  
**Skin Contact:** Remove contaminated clothing immediately. Wash with soap and water. Consult a physician.  
**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Consult a physician.  
**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5 FIRE FIGHTING MEASURES

Suitable extinguishing media  
 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture  
 Carbon oxides

Advice for firefighters  
 Wear self-contained breathing apparatus for firefighting if necessary.

Further information  
 No data

### 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**  
 Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors accumulate in low areas.

**Environmental precautions:**  
Do not let product enter drains.

**Methods and materials for containment and cleaning up:**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**7 HANDLING AND STORAGE**

**Handling Precautions:** Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing.  
**Storage Requirements:** Keep container tightly closed. Store in cool/dry well ventilated area.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Personal Protective Equipment:** Formaldehyde 37%, 15% menthanol (50-00-0) []  
Personal protective equipment  
Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  
Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  
Full contact: Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested:Camatril (KCL 730 / Aldrich Z677442, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.  
Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).  
Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Exposure Guidelines**

Formaldehyde 37%, 15% menthanol (50-00-0) []

Components with workplace control parameters

C 0.3 ppm USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract irritation  
Suspected human carcinogen  
Sensitizer

TWA 0.016 ppm USA. NIOSH Recommended Exposure Limits

Potential Occupational Carcinogen  
See Appendix A

C 0.1 ppm USA. NIOSH Recommended  
Exposure Limits

Potential Occupational Carcinogen

See Appendix A

15 minute ceiling value

Substance listed; for more information see OSHA document  
1910.1048

Substance listed; for more information see OSHA document  
1910.1048

See 1910.1048

PEL 0.75 ppm OSHA Specifically Regulated  
Chemicals/Carcinogens

1910.1048

This standard applies to all occupational exposures to formaldehyde,  
i.e. from formaldehyde gas, its solutions, and materials that release  
formaldehyde

OSHA specifically regulated carcinogen

STEL 2 ppm OSHA Specifically Regulated  
Chemicals/Carcinogens

1910.1048

This standard applies to all occupational exposures to formaldehyde,  
i.e. from formaldehyde gas, its solutions, and materials that release  
formaldehyde

OSHA specifically regulated carcinogen

TWA 0.016 ppm USA. NIOSH Recommended  
Exposure Limits

Potential Occupational Carcinogen

Formalin is an aqueous solution that is 37% formaldehyde by  
weight; inhibited solutions usually contain 6- 12% methyl alcohol.

Also see specific listings for Formaldehyde and Methyl alcohol.

See Appendix A

C 0.1 ppm USA. NIOSH Recommended  
Exposure Limits

Potential Occupational Carcinogen

Formalin is an aqueous solution that is 37% formaldehyde by  
weight; inhibited solutions usually contain 6- 12% methyl alcohol.

Also see specific listings for Formaldehyde and Methyl alcohol.

See Appendix A

15 minute ceiling value

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## PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Colorless.
<b>Physical State:</b>	Liquid
<b>Odor:</b>	Pungent
<b>Specific Gravity or Density:</b>	1.016
<b>Flash Point:</b>	64 °C (147 °F) - closed cup
<b>Vapor Pressure:</b>	69 hPa (52 mmHg) at 37 °C (99 °F)
<b>Vapor Density:</b>	1.04 - (Air = 1.0)
<b>Upper Flammability Limit and</b>	Upper explosion limit: 73 %(V)

**Lower Flammability Limit:**

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**STABILITY AND REACTIVITY**

**Reactivity:** No data available  
**Chemical Stability:** Stable under recommended storage conditions.  
**Conditions to Avoid identification:** Heat, flames and sparks.

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**TOXICOLOGICAL INFORMATION**

Formaldehyde 37%, 15% menthanol (50-00-0) []

Information on toxicological effects

Acute toxicity: no data available

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: 1 - Group 1: Carcinogenic to humans (Formaldehyde)

NTP: Known to be human carcinogen (Formaldehyde)

OSHA: OSHA specifically regulated carcinogen (Formaldehyde)

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: LP8925000

Liver - Irregularities - Based on Human Evidence

Central nervous system - Breathing difficulties - Based on Human Evidence

Liver - Irregularities - Based on Human Evidence (Formaldehyde)

Stomach - Irregularities - Based on Human Evidence (Methanol)

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**ECOLOGICAL INFORMATION**

Formaldehyde 37%, 15% menthanol (50-00-0) []

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

**13 DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

**14 TRANSPORT INFORMATION**

UN2209, Formaldehyde solutions, with not less than 25 percent formaldehyde, 8, PGIII

**15 REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

Formaldehyde 37%, 15% menthanol (50-00-0) [n/a%] CERCLA, CSWHS, EHS302, EPCRAWPC, HAP, MASS, NJEHS, NJHS, NRC, OSHAHTS, OSHAPSM, PA, PROP65, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL



**WARNING**

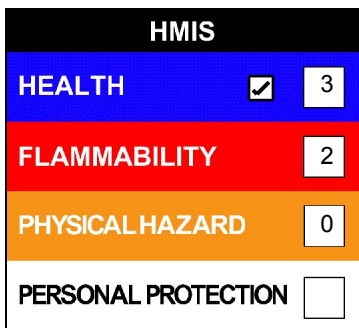
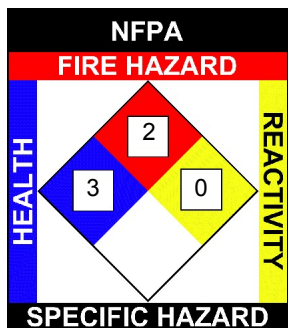
This product can expose you to chemicals including Formaldehyde (gas), which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Regulatory CODE Descriptions

- CERCLA = Superfund clean up substance
- CSWHS = Clean water Act Hazardous substances
- EHS302 = Extremely Hazardous Substance
- EPCRAWPC = EPCRA Water Priority Chemicals
- HAP = Hazardous Air Pollutants
- MASS = MA Massachusetts Hazardous Substances List
- NJEHS = NJ Extraordinarily Hazardous Substances
- NJHS = NJ Right-to-Know Hazardous Substances
- NRC = Nationally Recognized Carcinogens
- OSHAHTS = OSHA Hazardous and Toxic Substances
- OSHAPSM = OSHA Chemicals Requiring process safety management
- PA = PA Right-To-Know List of Hazardous Substances
- PROP65 = CA Prop 65
- SARA313 = SARA 313 Title III Toxic Chemicals
- TOXICRCRA = RCRA Toxic Hazardous wastes (U-List)
- TSCA = Toxic Substances Control Act
- TXAIR = TX Air Contaminants with Health Effects Screening Level
- TXHWL = TX Hazardous Waste List

**16 OTHER INFORMATION**

NFPA: Health = 3, Fire = 2, Reactivity = 0, Specific Hazard = n/a  
HMIS III: Health = 3(Chronic), Fire = 2, Physical Hazard = 0



**Disclaimer:**

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