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

1.1. Product identifier

Product form: Substance
Substance name: Formaldehyde, 37% w/w
CAS No: 50-00-0
Product code: VT310
Formula: CH₂O
Synonyms: formic aldehyde, 37% / formol, 37% / methanal, 37% / methyl aldehyde, 37% / methylene glycol, 37% / methylene oxide, 37% / oxomethane, 37% / oxomethylene, 37% / paraform, 37% / tetraoxymethylene, 37%

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

Use of the substance/mixture: Chemical intermediate
Disinfectant
Laboratory chemical

1.3. Details of the supplier of the safety data sheet

Val Tech Diagnostics, A Division of LabChem Inc
Jackson's Pointe Commerce Park Building 1000
1010 Jackson's Pointe Court
Zelienople, PA 16063
T 412-826-5230
F 724-473-0647

1.4. Emergency telephone number

Emergency number: CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Flam. Liq. 3 H226
Acute Tox. 4 (Oral) H302
Acute Tox. 3 (Inhalation) H331
Skin Corr. 1B H314
Eye Dam. 1 H318
Skin Sens. 1A H317
Carc. 1B H350
Aquatic Acute 2 H401

2.2. Label elements

GHS-US labelling
Hazard pictograms (GHS-US):

Signal word (GHS-US): Danger
Hazard statements (GHS-US):
H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H331 - Toxic if inhaled
H350 - May cause cancer (Inhalation)
H401 - Toxic to aquatic life

Precautionary statements (GHS-US):
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
Formaldehyde, 37% w/w
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, ventilating, lighting equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P260 - Do not breathe mist, vapours, spray
P264 - Wash exposed 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 clothing, protective gloves, eye protection, face protection
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position 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
P308+P313 - IF exposed or concerned: Get medical advice/attention
P310 - Immediately call a POISON CENTER or doctor/physician
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse
P370+P378 - In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant foam for extinction
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P235 - Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to comply with local, state and federal regulations

2.3. Other hazards
Other hazards not contributing to the classification: None under normal conditions.

2.4. Unknown acute toxicity (GHS-US)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
Substance type: Multi-constituent
Name: Formaldehyde, 37% w/w
CAS No: 50-00-0
EC no: 200-001-8
EC index no: 605-001-00-5

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS No) 7732-18-5</td>
<td>48-53</td>
<td>Not classified</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>(CAS No) 50-00-0</td>
<td>37</td>
<td>Acute Tox. 1 (Inhalation;gas), H330, Carc. 1A, H350</td>
</tr>
<tr>
<td>Methanol</td>
<td>(CAS No) 67-56-1</td>
<td>10-15</td>
<td>Flam. Liq. 2, H225, Acute Tox. 3 (Oral), H301, Acute Tox. 3 (Dermal), H311, Acute Tox. 3 (Inhalation), H331, STOT SE 1, H370</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

3.2. Mixture
Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures
Formaldehyde, 37% w/w
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

First-aid measures after inhalation: Remove the victim into fresh air. Immediately consult a doctor/medical service.
First-aid measures after skin contact: Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.
First-aid measures after eye contact: Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries after skin contact: Caustic burns/corrosion of the skin.
Symptoms/injuries after eye contact: Corrosion of the eye tissue.

SECTION 5: Firefighting measures
5.1. Extinguishing media
Unsuitable extinguishing media: No unsuitable extinguishing media known.
5.2. Special hazards arising from the substance or mixture
Fire hazard: DIRECT FIRE HAZARD. Material presenting a fire hazard. INDIRECT FIRE HAZARD Temperature above flashpoint: higher fire/explosion hazard. Reactions involving a fire hazard: see "Reactivity Hazard".
Explosion hazard: INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard".
Reactivity: Upon combustion: CO and CO2 are formed. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Reacts violently with many compounds. Reacts with (some) acids: release of (highly) toxic compounds. Unstabilized product polymerizes. Reacts with (some) bases: release of carbon dioxide with pressure rise and possible bursting of container.

5.3. Advice for firefighters
Firefighting instructions: Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection. Do not breathe gas, fumes, vapour or spray.
Emergency procedures: If a major spill occurs, all personnel should be immediately evacuated and the area ventilated. Ventilate area. Stop leak if safe to do so.
6.2. Environmental precautions
Prevent soil and water pollution. Prevent spreading in sewers.
### 6.3. Methods and material for containment and cleaning up

**For containment**
- Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Dilute toxic gases/vapours with water spray. Take account of toxic/corrosive precipitation water.

**Methods for cleaning up**
- Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/leavings. Damaged/coolied tanks must be emptied. Take collected spill to manufacturer/competent authority. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

### 6.4. Reference to other sections
No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Precautions for safe handling**
- Comply with the legal requirements. Use only in well-ventilated areas. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Use earthed equipment. Keep away from naked flames/heat. At temperature > flashpoint: use spark/explosionproof appliances. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe very strict hygiene - avoid contact. Keep container tightly closed. Measure the concentration in the air regularly. Exhaust gas must be neutralised.

**Hygiene measures**
- Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Incompatible products**

**Incompatible materials**
- Sources of ignition.

**Heat and ignition sources**
- KEEP SUBSTANCE AWAY FROM: heat sources.

**Prohibitions on mixed storage**
- KEEP SUBSTANCE AWAY FROM: combustible materials. Oxidizing agents. (Strong) acids. (Strong) bases.

**Storage area**
- Store in a cool area. Keep container in a well-ventilated place. Keep locked up. Provide for a tub to collect spills. Unauthorized persons are not admitted. Meet the legal requirements.

**Special rules on packaging**
- SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

**Packaging materials**

#### 7.3. Specific end use(s)
No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Formaldehyde, 37% w/w (50-00-0)**

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<tr>
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<th>Parameter</th>
<th>Value</th>
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<tr>
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<td>Ceiling</td>
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<td>USA ACGIH</td>
<td>Ceiling</td>
<td>0.3 ppm</td>
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<tr>
<td>USA OSHA</td>
<td>PEL (TWA)</td>
<td>0.75 ppm</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>PEL (STEL)</td>
<td>2 ppm</td>
</tr>
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</table>

**Formaldehyde (50-00-0)**

<table>
<thead>
<tr>
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<th>Parameter</th>
<th>Value</th>
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</thead>
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<td>0.37 mg/m³</td>
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</tr>
<tr>
<td>USA OSHA</td>
<td>PEL (TWA)</td>
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</tr>
<tr>
<td>USA OSHA</td>
<td>PEL (STEL)</td>
<td>2 ppm</td>
</tr>
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</table>

**Methanol (67-56-1)**

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<thead>
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<tr>
<td>USA ACGIH</td>
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Formaldehyde, 37% w/w
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
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<tbody>
<tr>
<td>USA ACGIH</td>
<td>ACGIH STEL (ppm)</td>
<td>200 ppm</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>260 mg/m³</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

Personal protective equipment: Gas mask with filter type A. Protective goggles. Protective clothing. Face shield.

Materials for protective clothing: GIVE EXCELLENT RESISTANCE: Butyl rubber, nitrile rubber, viton. GIVE GOOD RESISTANCE: Tetrafluoroethylene, polyethylene/ethylenevinylalcohol. GIVE LESS RESISTANCE: Neoprene, PVC. GIVE POOR RESISTANCE: Natural rubber, polyethylene, PVA.

Hand protection: Gloves.
Eye protection: Safety glasses.
Skin and body protection: Head/neck protection. Corrosion-proof clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Liquid.
Molecular mass: 30.03 g/mol
Colour: Colourless.
Odour: Irritating/pungent odour.
Odour threshold: 1 ppm 1.2 mg/m³
pH: No data available
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: > 60 °C
Self ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: No data available
Density: 1.08 g/ml
Log Pow: 0.78 - 0.0
Log Kow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
 Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available
Formaldehyde, 37% w/w
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

9.2. Other information
VOC content : > 25 %
Other properties : Clear. Physical properties depending on the concentration. Volatile. Substance has acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity
Upon combustion: CO and CO2 are formed. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Reacts violently with many compounds. Reacts with (some) acids: release of (highly) toxic compounds. Unstabilized product polymerizes. Reacts with (some) bases: release of carbon dioxide with pressure rise and possible bursting of container.

10.2. Chemical stability
No data available.

10.3. Possibility of hazardous reactions
None.

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Harmful if swallowed. Toxic if inhaled.

Formaldehyde, 37% w/w (50-00-0)
LD50 oral rat 500 mg/kg

Formaldehyde (50-00-0)
LD50 oral rat 500 mg/kg
LC50 inhalation rat (ppm) 0.579 ppm/4h

Methanol (67-56-1)
LD50 oral rat > 5000 mg/kg (1187-2769 mg/kg bodyweight; Rat; Rat)
LD50 dermal rabbit 15800 mg/kg (Rabbit)
LC50 inhalation rat (mg/l) 85 mg/l/4h (Rat)
LC50 inhalation rat (ppm) 64000 ppm/4h (Rat)

Water (7732-18-5)
LD50 oral rat ≥ 90000 mg/kg
Skin corrosion/irritation : Causes severe skin burns and eye damage.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer (Inhalation).

Formaldehyde, 37% w/w (50-00-0)
IARC group 1 - Carcinogenic to humans

Formaldehyde (50-00-0)
IARC group 1 - Carcinogenic to humans
National Toxicity Program (NTP) Status 2 - Known Human Carcinogens
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Formaldehyde, 37% w/w
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aspiration hazard : Not classified
Symptoms/injuries after skin contact : Caustic burns/corrosion of the skin.
Symptoms/injuries after eye contact : Corrosion of the eye tissue.


SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
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<tr>
<td>EC50 Daphnia 1</td>
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<tr>
<td>LC50 fish 2</td>
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<tr>
<td>EC50 Daphnia 2</td>
</tr>
<tr>
<td>TLM fish 1</td>
</tr>
<tr>
<td>TLM fish 2</td>
</tr>
<tr>
<td>TLM other aquatic organisms 1</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
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</table>

<table>
<thead>
<tr>
<th>Methanol (67-56-1)</th>
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</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
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<td>EC50 Daphnia 1</td>
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<td>LC50 fish 2</td>
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<tr>
<td>EC50 Daphnia 2</td>
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</tr>
<tr>
<td>Threshold limit algae 1</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
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</table>

12.2. Persistence and degradability

<table>
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<tr>
<th>Formaldehyde, 37% w/w (50-00-0)</th>
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<tbody>
<tr>
<td>Persistence and degradability</td>
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<tr>
<td>Biochemical oxygen demand (BOD)</td>
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<tr>
<td>Chemical oxygen demand (COD)</td>
</tr>
<tr>
<td>ThOD</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Methanol (67-56-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
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<td>Chemical oxygen demand (COD)</td>
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<tr>
<td>ThOD</td>
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<tr>
<td>BOD (% of ThOD)</td>
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<table>
<thead>
<tr>
<th>Water (7732-18-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>
FORMALDEHYDE, 37% w/w
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.3. Bioaccumulative potential

Formaldehyde, 37% w/w (50-00-0)

Log Pow: -0.78 - 0.0
Bioaccumulative potential: Bioaccumulation: not applicable.

Formaldehyde (50-00-0)

Log Pow: 0.35

Methanol (67-56-1)

BCF fish 1 < 10 (Leuciscus idus)
Log Pow: -0.77 (Experimental value; Other, Experimental value; Other)
Bioaccumulative potential: Low potential for bioaccumulation (BCF < 500).

Water (7732-18-5)

Bioaccumulative potential: Not established.

12.4. Mobility in soil

Formaldehyde, 37% w/w (50-00-0)

Ecology - soil: Toxic to flora.

Methanol (67-56-1)

Surface tension: 0.023 N/m (20 °C)

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Dehydrate. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. May be discharged to wastewater treatment installation.

Additional information: Hazardous waste according to Directive 2008/98/EC.
Ecology - waste materials: Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with DOT

Transport document description: UN1198 Formaldehyde solutions, flammable, 3, III
UN-No.(DOT): 1198
DOT NA no.: UN1198
DOT Proper Shipping Name: Formaldehyde solutions, flammable
Department of Transportation (DOT) Hazard Classes: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT): 3 - Flammable liquid
8 - Corrosive

Packing group (DOT): III - Minor Danger
Formaldehyde, 37% w/w
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**DOT Special Provisions (49 CFR 172.102)**
- **B1** - If the material has a flash point at or above 38 °C (100 °F) and below 93 °C (200 °F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 °C (100 °F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.
- **IB3** - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 °C (1.1 bar at 122 °F), or 130 kPa at 55 °C (1.3 bar at 131 °F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
- **T4** - 2.65 178.274(d)(2) Normal............. 178.275(d)(3)

**DOT Packaging Exceptions (49 CFR 173.xxx)**
- 4b;150

**DOT Packaging Non Bulk (49 CFR 173.xxx)**
- 203

**DOT Packaging Bulk (49 CFR 173.xxx)**
- 242

**DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)**
- 5 L

**DOT Quantity Limitations Cargo aircraft only (49 CFR 173.75)**
- 60 L

**DOT Vessel Stowage Location**
- A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

**DOT Vessel Stowage Other**
- 40 - Stow “clear of living quarters”

**Additional information**

- **Other information**
  - No supplementary information available.

- **State during transport (ADR-RID)**
  - as liquid.

**ADR**

**Transport document description**

**Transport by sea**
- No additional information available

**Air transport**
- No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

**Formaldehyde, 37% w/w (50-00-0)**
- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- **RQ (Reportable quantity, section 304 of EPA’s List of Lists):** 100 lb
- **SARA Section 311/312 Hazard Classes**
  - Immediate (acute) health hazard
  - Delayed (chronic) health hazard
- **SARA Section 313 - Emission Reporting**
  - 0.1 %

**Formaldehyde (50-00-0)**
- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- Listed on SARA Section 313 (Specific toxic chemical listings)
- **RQ (Reportable quantity, section 304 of EPA’s List of Lists):** 100 lb
- **SARA Section 311/312 Hazard Classes**
  - Immediate (acute) health hazard
  - Delayed (chronic) health hazard

**Methanol (67-56-1)**
- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- Listed on SARA Section 313 (Specific toxic chemical listings)
- **RQ (Reportable quantity, section 304 of EPA’s List of Lists):** 5000 lb
- **SARA Section 311/312 Hazard Classes**
  - Immediate (acute) health hazard
  - Fire hazard
Formaldehyde, 37% w/w
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 15.2. International regulations

**CANADA**

**Formaldehyde, 37% w/w (50-00-0)**

<table>
<thead>
<tr>
<th>WHMIS Classification</th>
<th>Description</th>
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<tbody>
<tr>
<td>Class B Division 3 - Combustible Liquid</td>
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</tr>
<tr>
<td>Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects</td>
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</tr>
<tr>
<td>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects</td>
<td></td>
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<tr>
<td>Class D Division 2 Subdivision B - Toxic material causing other toxic effects</td>
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</tr>
<tr>
<td>Class E - Corrosive Material</td>
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**Formaldehyde (50-00-0)**

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<td>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects</td>
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<tr>
<td>Class E - Corrosive Material</td>
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**Methanol (67-56-1)**

<table>
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<th>WHMIS Classification</th>
<th>Description</th>
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<tbody>
<tr>
<td>Class B Division 2 - Flammable Liquid</td>
<td></td>
</tr>
<tr>
<td>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects</td>
<td></td>
</tr>
<tr>
<td>Class D Division 2 Subdivision B - Toxic material causing other toxic effects</td>
<td></td>
</tr>
</tbody>
</table>

**Water (7732-18-5)**

<table>
<thead>
<tr>
<th>WHMIS Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uncontrolled product according to WHMIS classification criteria</td>
<td></td>
</tr>
</tbody>
</table>

**EU-Regulations**

No additional information available

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

<table>
<thead>
<tr>
<th>Class</th>
<th>H-phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carc. 2</td>
<td>H351</td>
</tr>
<tr>
<td>Acute Tox. 3 (Inhalation)</td>
<td>H331</td>
</tr>
<tr>
<td>Acute Tox. 3 (Dermal)</td>
<td>H311</td>
</tr>
<tr>
<td>Acute Tox. 3 (Oral)</td>
<td>H301</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>H314</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>H335</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>H317</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC or 1999/45/EC**

<table>
<thead>
<tr>
<th>Class</th>
<th>R-phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carc. Cat. 3: R40</td>
<td></td>
</tr>
<tr>
<td>T: R23/24/25</td>
<td></td>
</tr>
<tr>
<td>C: R34</td>
<td></td>
</tr>
<tr>
<td>R43</td>
<td></td>
</tr>
</tbody>
</table>

Full text of R-phrases: see section 16

**15.2.2. National regulations**

**Formaldehyde, 37% w/w (50-00-0)**

Listed on the Canadian Ingredient Disclosure List

**Formaldehyde (50-00-0)**

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on the Canadian Ingredient Disclosure List
Formaldehyde, 37% w/w
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.3. US State regulations

<table>
<thead>
<tr>
<th>Formaldehyde, 37% w/w(50-00-0)</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California - Proposition 65 - Developmental Toxicity &amp; No significance risk level (NSRL)</td>
<td>Yes</td>
<td>40 µg/day</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Formaldehyde (50-00-0)</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California - Proposition 65 - Developmental Toxicity &amp; U.S. - California - Proposition 65 - Reproductive Toxicity - Female &amp; U.S. - California - Proposition 65 - Reproductive Toxicity - Male &amp; No significance risk level (NSRL)</td>
<td>Yes</td>
<td>40 µg/day</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Methanol (67-56-1)</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California - Proposition 65 - Developmental Toxicity &amp; U.S. - California - Proposition 65 - Reproductive Toxicity - Female &amp; U.S. - California - Proposition 65 - Reproductive Toxicity - Male &amp; No significance risk level (NSRL)</td>
<td>Yes</td>
<td>40 µg/day</td>
</tr>
</tbody>
</table>

SECTION 16: Other information

Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>Acute Tox. 1 (Inhalation:gas)</th>
<th>Acute toxicity (inhalation:gas) Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3 (Dermal)</td>
<td>Acute toxicity (dermal), Category 3</td>
</tr>
<tr>
<td>Acute Tox. 3 (Inhalation)</td>
<td>Acute toxicity (inhal.), Category 3</td>
</tr>
<tr>
<td>Acute Tox. 3 (Oral)</td>
<td>Acute toxicity (oral), Category 3</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral), Category 4</td>
</tr>
<tr>
<td>Aquatic Acute 2</td>
<td>Hazardous to the aquatic environment — AcuteHazard, Category 2</td>
</tr>
<tr>
<td>Carc. 1A</td>
<td>Carcinogenicity, Category 1A</td>
</tr>
<tr>
<td>Carc. 1B</td>
<td>Carcinogenicity, Category 1B</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids, Category 2</td>
</tr>
<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids, Category 3</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation, Category 1B</td>
</tr>
<tr>
<td>Skin Sens. 1A</td>
<td>Sensitisation — Skin, category 1A</td>
</tr>
<tr>
<td>STOT SE 1</td>
<td>Specific target organ toxicity — single exposure, Category 1</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapour</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H330</td>
<td>Fatal if inhaled</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H370</td>
<td>Causes damage to organs</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
</tbody>
</table>
Formaldehyde, 37% w/w

Safety Data Sheet

NFPA health hazard: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

<table>
<thead>
<tr>
<th>HMIS III Rating</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>3</td>
<td>Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given</td>
</tr>
<tr>
<td>Flammability</td>
<td>2</td>
<td>Moderate Hazard</td>
</tr>
<tr>
<td>Physical</td>
<td>0</td>
<td>Minimal Hazard</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>H</td>
<td></td>
</tr>
</tbody>
</table>

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