

Safety Data Sheet

Revision date: 08/24/2015

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 Product : 50-00-0 code Formula : LC14650 Synonyms : CH2O

formic aldehyde, 37% / formol, 37% / methanal, 37% / methyl aldehyde, 37% / methylene glycol,

37% / methylene oxide, 37% / oxomethane, 37% / oxomethylene, 37% / paraform, 37% /

tetraoxymethylene, 37%

BIG no : 12083

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

LabChem Inc

Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe

Court Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

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 H401 Aquatic Acute 2

2.2.Label elements

GHS-US labelling

Signal word (GHS-US)

Hazard pictograms (GHS-US)





GHS05



GHS06



: 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

P233 - Keep container tightly closed



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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

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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 Name:Multi-constituent Formaldehyde, 37% w/w

CAS No: 50-00-0

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	48 - 53	Not classified
Formaldehyde	(CAS No) 50-00-0	37	Acute Tox. 1 (Inhalation:gas), H330 Carc. 1A, H350
Methanol	(CAS No) 67-56-1	['] 10 - 15	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation),
Full text of H-phrases: see section 16			H331 STOT SE 1. H370

3.2.Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

: Remove the victim into fresh air. Immediately consult a doctor/medical service.



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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.

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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.

First-aid measures after ingestion

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.htm). Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital. Do not give chemical antidote. Doctor: gastric lavage.

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

Symptoms/injuries after inhalation

: Runny nose. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. EXPOSURE TO HIGH CONCENTRATIONS: Possible oedema of the upper respiratory tract. Possible laryngeal spasm/oedema. Respiratory difficulties. Risk of lung oedema

Symptoms/injuries after skin contact Symptoms/injuries after eye

: Caustic burns/corrosion of the skin.

contact Symptoms/injuries after

: Corrosion of the eye tissue.

ingestion

: Nausea. Vomiting. Diarrhoea. AFTER ABSORPTION OF HIGH QUANTITIES: Central nervous system depression. Dizziness. Blood in vomit. Blood in stool. Shock. Disturbances of consciousness. Change in the haemogramme/blood composition. Change in urine composition.

Urine discolouration.
ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Skin

Chronic symptoms

rash/inflammation. Coughing. Possible inflammation of the respiratory tract. Respiratory

difficulties

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

Obtain medical assistance.

SECTION 5: Firefighting measures

5.1.Extinguishing media

Suitable extinguishing media : Preferably: water spray. Alcohol-resistant foam. BC powder. Carbon dioxide.

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".

: INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard".

Explosion 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

Protective equipment : Gas-tight suit. Corrosion-proof suit.

Emergency procedures : Keep upwind. Mark the danger area. Consider evacuation. Close doors and windows of adjacent

premises. No naked flames. Keep containers closed. Wash contaminated clothes.

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.

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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/leftovers. Damaged/cooled 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

: Strong oxidizers. Strong bases. metals. Acid chlorides. Acid anhydrides.

materials

: Sources of ignition.

Heat and ignition sources Prohibitions on

: KEEP SUBSTANCE AWAY FROM: heat sources.

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

SUITABLE MATERIAL: stainless steel. aluminium. synthetic material. glass. stoneware/porcelain. MATERIAL TO AVOID: iron. copper. zinc. nickel.

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)

USA ACGIH	ACGIH Ceiling (mg/m³)	0.37 mg/m ³
USA ACGIH	ACGIH Ceiling (ppm)	0.3 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	0.75 ppm
USA OSHA	OSHA PEL (STEL) (ppm)	2 ppm

Formaldehyde (50-00-0)

J (,		
USA ACGIH	ACGIH Ceiling (mg/m³)	0.37 mg/m³
USA ACGIH	ACGIH Ceiling (ppm)	0.3 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	0.75 ppm
USA OSHA	OSHA PEL (STEL) (ppm)	2 ppm

Methanol (67-56-1)

USA ACGIH ACGIH TWA (ppm) 200 ppm



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Methanol (67-56-1)

 USA ACGIH
 ACGIH STEL (ppm)
 200 ppm

 USA OSHA
 OSHA PEL (TWA) (mg/m³)
 260 mg/m³

 USA OSHA
 OSHA PEL (TWA) (ppm)
 200 ppm

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.

Respiratory protection : Wear gas mask with filter type A if conc. in air > exposure limit. High vapour/gas concentration:

self-contained respirator.

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/m^3

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

Soluble in ethanol. Soluble in methanol. Soluble in ether. Soluble in acetone. Soluble in

chloroform.

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



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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

Incompatible materials. Heat. Sparks. Open flame.

10.5. Incompatible materials

Strong bases. Strong oxidizers. Strong acids. metals.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Hydrogen. Formaldehyde.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Toxic if inhaled.

Formaldehyde, 37% w/w (\f)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



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Aspiration hazard

: Not classified

Symptoms/injuries after inhalation

: Runny nose. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. EXPOSURE TO HIGH CONCENTRATIONS: Possible oedema of the upper respiratory tract. Possible laryngeal spasm/oedema. Respiratory difficulties. Risk of lung

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Symptoms/injuries after skin contact Symptoms/: Caustic burns/corrosion of the skin.

injuries after eye contact Symptoms/injuries after : Corrosion of the eye tissue.

ingestion

Nausea. Vomiting. Diarrhoea. AFTER ABSORPTION OF HIGH QUANTITIES: Central nervous

system depression. Dizziness. Blood in vomit. Blood in stool. Shock. Disturbances of

consciousness. Change in the haemogramme/blood composition. Change in urine composition.

Chronic symptoms ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Skin

rash/inflammation. Coughing. Possible inflammation of the respiratory tract. Respiratory

difficulties

SECTION 12: Ecological information

12.1. **Toxicity**

Ecology - water

Water pollutant (surface water). Harmful to fishes. Harmful to invertebrates (Daphnia). pH shift.

Not harmful to activated sludge.

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

LC50 fishes 1 41 mg/l (96 h; Brachydanio rerio; Pure substance) EC50 Daphnia 1 14.7 mg/l (24 h; Daphnia magna; Pure substance)

LC50 fish 2 62 - 109 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Pure substance)

EC50 Daphnia 2

50 - 200,96 h; Poecilia reticulata; Pure substance TLM fish 1

10 - 100.Pisces: Pure substance TI M fish 2

TLM other aquatic organisms 1 10 - 100,96 h

Threshold limit algae 1 2.5 mg/l (192 h; Scenedesmus quadricauda; Pure substance) Threshold limit algae 2 0.39 mg/l (192 h; Microcystis aeruginosa; Solution <50%)

Methanol (67-56-1)

LC50 fishes 1 15400 mg/l (96 h; Lepomis macrochirus; Lethal) EC50 Daphnia 1 > 10000 mg/l (48 h; Daphnia magna; Lethal)

LC50 fish 2 10800 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)

EC50 Daphnia 2 Threshold limit other aquatic organisms 1

Threshold limit algae 1 Threshold limit algae 2 24500 mg/l (48 h; Daphnia magna) 6600 mg/l (16 h; Pseudomonas putida) 530 mg/l (192 h; Microcystis aeruginosa)

8000 mg/l (168 h; Scenedesmus quadricauda)

12 2 Persistence and degradability

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

Persistence and degradability

Readily biodegradable in water. Biodegradability in soil: no data available. No (test)data on

mobility of the components of the mixture available. Photodegradation in the air.

Biochemical oxygen demand (BOD) 0.64 g O²/g substance Chemical oxygen demand (COD) 1.06 g O²/g substance ThOD 1.068 g O²/g substance

BOD (% of ThOD) (5 day(s)) 0.60

Methanol (67-56-1)

Persistence and degradability Readily biodegradable in water. Biodegradable in the soil.

Biochemical oxygen demand (BOD) 0.6 - 1.12 g O²/g substance Chemical oxygen demand (COD) 1.42 g O²/g substance **ThOD** 1.5 g O²/g substance

BOD (% of ThOD) 0.8 % ThOD

Water (7732-18-5)

Persistence and degradability Not established.

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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)

0.35 Log Pow

Methanol (67-56-1)

BCF fish 1 < 10 (Leuciscus idus)

Log Pow -0.77 (Experimental value; Other, Experimental value; Other)

Low potential for bioaccumulation (BCF < 500). Bioaccumulative potential

Water (7732-18-5)

Bioaccumulative potential Not established.

Mobility in soil 12.4.

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

Toxic to flora. Ecology - soil

Methanol (67-56-1)

Surface tension 0.023 N/m (20 °C)

Other adverse effects 12 5

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.

: Avoid release to the environment. Hazardous waste due to toxicity. Ecology - waste materials

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

Hazard labels (DOT)

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

: 3 - Flammable liquid 8 - Corrosive





Packing group (DOT) : III - Minor Danger



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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)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

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 : 5 L (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

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):

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

Delayed (chronic) health hazard

SARA Section 313 - Emission Reporting

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):

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

Fire hazard



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Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

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

Listed on the Canadian DSL (Domestic Sustances List) inventory.

WHMIS Classification Class B Division 3 - Combustible Liquid

Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic

effects

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Class E - Corrosive Material

Formaldehyde (50-00-0)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

WHMIS Classification Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic

effects

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Class E - Corrosive Material

Methanol (67-56-1)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

WHMIS Classification Class B Division 2 - Flammable Liquid

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

EU-Regulations

No additional information available

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

Carc. 2 H351
Acute Tox. 3 (Inhalation) H331
Acute Tox. 3 (Dermal) H311
Acute Tox. 3 (Oral) H301
Skin Corr. 1B H314
STOT SE 3 H335
Skin Sens. 1 H317

Full text of H-phrases: see section 16

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

Carc.Cat.3; R40 T; R23/24/25 C; R34 R43

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



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Methanol (67-56-1)

Listed on the Canadian Ingredient Disclosure List

Water (7732-18-5)

Not listed on the Canadian Ingredient Disclosure List

15.3. US State regulations

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

U.S. - California - Proposition 65 - Carcinogens List

Ves

U.S. - California - Proposition 65 - Developmental

Yes

Toxicity

Yes

No significance risk level (NSRL) 40 μg/day

Formaldehyde (50-00-0)

U.S. - California - No significance risk level Proposition 65 - Proposition 65

Carcinogens List Developmental Toxicity Reproductive Toxicity - Reproductive Toxicity - Male

Female

Female

40 μg/day

Methanol (67-56-1)

H318

U.S. - California Proposition 65 Proposition 65 Proposition 65 Developmental Toxicity
U.S. - California Proposition 65 Reproductive Toxicity Rep

Yes 40 µg/day

SECTION 16: Other information

Full text of H-phrases: see section 16:

Acute Tox. 1 (Inhalation:gas)

Acute toxicity (inhal

Acute Tox. 1 (Inhalation:gas)

Acute Tox. 3 (Dermal)

Acute toxicity (inhalation:gas) Category 1

Acute toxicity (dermal), Category 3

Acute Tox. 3 (Inhalation)

Acute toxicity (inhal.), Category 3

Acute Tox. 3 (Oral)

Acute toxicity (oral), Category 3

Acute Tox. 4 (Oral)

Acute toxicity (oral), Category 4

Aquatic Acute 2 Hazardous to the aquatic environment — AcuteHazard, Category 2

Carc. 1A Carcinogenicity, Category 1A Carc. 1B Carcinogenicity, Category 1B

Eye Dam. 1 Serious eye damage/eye irritation, Category 1

Flam. Liq. 2 Flammable liquids, Category 2
Flam. Liq. 3 Flammable liquids, Category 3
Skin Corr. 1B Skin corrosion/irritation, Category 1B
Skin Sens. 1A Sensitisation — Skin, category 1A

STOT SE 1 Specific target organ toxicity — single exposure, Category 1

H225 Highly flammable liquid and vapour
H226 Flammable liquid and vapour

H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in contact with skin

H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction

May cause an allergic skin reaction Causes serious eye damage

H330 Fatal if inhaled
H331 Toxic if inhaled
H350 May cause cancer
H370 Causes damage to organs
H401 Toxic to aquatic life



Safety Data Sheet

Revision date: 08/24/2015

NFPA health hazard : 3 - Short exposure could cause serious temporary or

residual injury even though prompt medical attention was

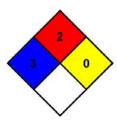
given

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.



HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 2 Moderate Hazard Physical : 0 Minimal Hazard

Personal Protection : H

SDS US (GHS HazCom 2012)

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