

TCI AMERICA SAFETY DATA SHEET

Revision number: 1 **Revision date: 07/06/2018**

1. IDENTIFICATION

Product name: Formaldehyde Solution (37%) (stabilized with Methanol)

Product code:

For laboratory research purposes. Product use: Not for drug or household use. Restrictions on use:

Company: TCI America

9211 N. Harborgate Street Portland, OR 97203 U.S.A.

Telephone:

+1-800-423-8616 / +1-503-283-1681

Fax:

+1-888-520-1075 / +1-503-283-1987

e-mail:

sales-US@TCIchemicals.com www.TCIchemicals.com

Emergency telephone number:

Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST

+1-503-286-7624

Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

+1-703-527-3887 (International) Responsible department:

TCI America

Environmental Health Safety and Security

+1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 3] WHMIS 2015:

Acute Toxicity - Dermal [Category 3] Acute Toxicity - Inhalation [Category 3] Eye Damage/Irritation [Category 1] Sensitization - Respiratory [Category 1] Sensitization - Skin [Category 1] Germ Cell Mutagenicity [Category 2]

Carcinogenicity [Category 1A]
Specific Target Organ Toxicity (Single Exposure) [Category 1] Specific Target Organ Toxicity (Repeated Exposure) [Category 1]

Flammable Liquids [Category 4] Aquatic Hazard (Acute) [Category 2] Skin Corrosion/Irritation [Category 1C]

Signal word: Danger!

Combustible liquid Hazard Statement(s):

> Toxic if swallowed, in contact with skin or if inhaled Causes severe skin burns and eye damage

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction Suspected of causing genetic defects

May cause cancer Toxic to aquatic life

Causes damage to: Respiratory System Nervous System

Causes damage to organs through prolonged or repeated exposure: Respiratory System Central

Nervous System

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces. - No smoking. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wash hands and face thoroughly after handling. Wear respiratory protection. Wear protective gloves, protective clothing, face protection.

[Response]

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on

skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. If exposed: Call a poison center or doctor.

[Storage] Store in a well-ventilated place. Keep container tightly closed. Store locked up.

[Disposal] Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:

[HNOC]

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

Components: Formaldehyde Solution (37%) (stabilized with Methanol)

Percent:

 CAS RN:
 50-00-0

 Molecular Weight:
 30.03

 Chemical Formula:
 CH2O

Hazardous ingredient(s): Formaldehyde (37%) 50-00-0

Methanol (7%) 67-56-1 Water (56%) 7732-18-5

Synonyms: Formalin (37%) (stabilized with Methanol)

Stabilizers: Methanol

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a

POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Immediately call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.Immediately call a POISON CENTER or doctor/physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Symptoms/effects:

Acute: Burning Sensation. Cough. Headache. Muscle twitching. Nausea. Pain. Redness. Shortness of breath.

Wheezing.

Delayed: May cause heritable genetic damage in humans. May cause skin sensitization. Possibly carcinogenic

to humans.

Indication of any immediate medical attention:

Not available.

Notes to physician:
No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

Hazardous combustion products: These products include: Carbon oxides

Other specific hazards: Closed containers may explode from heat of a fire.

Advice for firefighters: Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off,

Environmental precautions:

Methods and materials for containment

and cleaning up:

Prevent product from entering drains.

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly

disposed of, in accordance with appropriate laws and regulations.

Prevention of secondary hazards: Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use

spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent

generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after

handling

Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.

Avoid all contact!

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed

system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

Use respirators approved under appropriate government standards and follow local and national

No data available

No data available.

No data available

No data available

regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):LiquidForm:ClearColour:ColorlessOdour:Pungent

Odor threshold:

Odour threshold:

No data available

No data available

Melting point/freezing point:

Boiling point/range:

No data available pH:

Vapour pressure:

Decomposition temperature: No data available

Relative density: 1.10

Kinematic viscosity: No data available

Log Pow: No data available

No data available Evaporation rate(Butyl No data available

Vapour density:

Dynamic Viscosity:

Acetate=1):

Flash point: 83°C (181°F) Autoignition temperature: No data available

Flammability(solid, gas): No data available Flammability or explosive limits:

Lower: No data available
Upper: No data available

Solubility(ies):

[Water] Miscible [Other solvents] No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under proper conditions.

Possibility of hazardous reactions: No special reactivity has been reported.

Conditions to avoid: Open flame

Incompatible materials: Oxidizing agents, Acids, Bases, Alkali metals

Hazardous decomposition products: Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

RTECS Number: LP8925000

Acute Toxicity:

orl-rat LD50:10 mg/kg skn-rbt LD50:270 uL/kg ihl-rat LC50:203 mg/m³ orl-hmn LDLo:70 mg/kg

Skin corrosion/irritation:

skn-rbt 2 mg/24H SEV skn-hmn 150 ug/3D-I MLD

Serious eye damage/irritation:

eye-rbt 750 ug SEV eye-hmn 4 ppm/5M

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

dnd-hmn-lym 0.1 mmol/L/3H(-S9) dnd-hmn-lym 0.3 mmol/L/3H(+S9)

dns-hmn-hla 10 nmol/L

Carcinogenicity: ihl-rat TCLo:14300 ppb/6H/2Y-l

l-rat TCLo:14300 ppb/6H/2Y-I orl-rat TDLo:109 g/kg/2Y-C

IARC: Group 1 (Carcinogenic to NTP: b (Reasonably anticipated to be OSHA: No data available

humans). carcinogens).

Reproductive toxicity:

ihl-rat TCLo:35 ug/m³/8H (60D male) ihl-rat TCLo:40 ppm (6-20D preg) orl-rat TDLo:200 mg/kg (1D male)

Target organ(s):

Causes damage to: Respiratory System Nervous System

Causes damage to organs through prolonged or repeated exposure: Respiratory System Central Nervous System

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: No data available
Crustacea: No data available
Algae: No data available

Persistence / degradability: No data available Bioaccumulative potential(BCF): No data available

Mobility in soil

Log Pow: 0.35

Soil adsorption (Koc): No data available Henry's Law (PaM ³/mol): No data available

13. DISPOSAL CONSIDERATIONS

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and

Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for

Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

be allowed to enter the environment, drains, water ways, or the soil.

Disposal of container: Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US)

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN2209 Formaldehyde solutions 8 Corrosive material III

<u>IATA</u>

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN2209 Formaldehyde solution 8 Corrosive material III

<u>IMDG</u>

UN UN2209 Proper Shipping Name: Class or Division: Packing Group:

numb Formaldehyde solution 8 Corrosive material III

er:

EmS number: F-A, S-B

Reportable Quantitiy: 100 Pounds (45.4 Kilograms)

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Listed SARA 302: Listed

State Regulations
State Right-to-Know

Massachusetts
New Jersey
Pennsylvania
California Proposition 65:
Listed
Listed

Other Information

NFPA Rating:HMIS Classification:Health:4Health:4Flammability:2Flammability:2Instability:0Physical:0

International Inventories

 Canada: DSL
 On DSL

 EC-No:
 200-001-8

16. OTHER INFORMATION

Revision date: 07/06/2018 Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.