

MATERIAL SAFETY DATA SHEET**Product Name:** Formaldehyde solution**CAS No.:** 50-00-0**Version:** 0**1. Identification**

Product Code : 90413, 90167,92613
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2. Hazards Identification**Hazard classification**

Acute toxicity, Oral : Category 3
Acute toxicity, Inhalation : Category 3
Acute toxicity, Dermal : Category 3
Skin corrosion : Category 1B
Skin sensitisation : Category 1
Germ cell mutagenicity : Category 2
Carcinogenicity : Category 1B
Specific target organ toxicity - single exposure : Category 1
Specific target organ toxicity - single exposure : Category 3

Label elements**Hazard symbol**

Signal word : Danger
Hazard statement : Toxic if swallowed, in contact with skin or if inhaled
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause respiratory irritation.
Suspected of causing genetic defects.
May cause cancer.
Causes damage to organs.
Precautionary statement : Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

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IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Call a POISON CENTER or doctor/ physician.

Store in a well-ventilated place. Keep container tightly closed.

Supplemental Hazard Statements : None.

3. Composition/information on ingredients

| Ingredient | CAS No |
|-----------------------|---------|
| Formaldehyde solution | 50-00-0 |

4. First Aid Measures

Description of first aid measures

| | |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice | Consult a physician. Show this safety data sheet to the doctor in attendance. |
| Inhalation | : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| Skin contact | : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. |
| Eye contact | : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| Swallowed | : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| Most important symptoms and effects, both acute and delayed | : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11 |
| Indication of any immediate medical attention and special treatment needed Treatment | : No data available |

MATERIAL SAFETY DATA SHEET**Product Name:** Formaldehyde solution**CAS No.:** 50-00-0**Version:** 0**5. Fire fighting measures****Extinguishing media****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 fire fighting if necessary**Further information** : Use water spray to cool unopened containers.**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures** : Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.**Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.**Methods and materials for containment and cleaning up** : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations . Keep in suitable, closed containers for disposal.**Reference to other sections** : For disposal see section 13.**7. Handling and Storage****Precautions for safe handling** : Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.**Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects**Specific end use(s)** : No data available

MATERIAL SAFETY DATA SHEET**Product Name:** Formaldehyde solution**CAS No.:** 50-00-0**Version:** 0**8. Exposure Controls Personal Protection****Control parameters****Components with workplace control parameters****Exposure controls****Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.**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 Hand protection** : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's 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.**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** : Respiratory protection is required.**9. Physical and Chemical Properties**

| | |
|------------------------------------------------|------------------------------------|
| Appearance | : Colorless liquid |
| Odor | : No data available |
| pH | : No data available |
| Melting point/freezing point | : No data available |
| Initial boiling point and boiling range | : No data available |
| Flash Point | : 64 °C |
| Vapor pressure | : 69 hPa at 37 °C |
| Vapor density | : 1.04 - (Air = 1.0) |
| Relative density | : 1.016 g/cm ³ at 20 °C |
| Solubility in water | : No data available |
| Solubility (other) | : No data available |
| Formula | : CH ₂ O |
| Molecular Weight | : |

10. Stability and Reactivity

| | |
|---------------------------|------------------------------------------------|
| Reactivity | : No data available |
| Chemical stability | : Stable under recommended storage conditions. |

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Possibility of hazardous reactions : No data available
Conditions to avoid : Heat, flames and sparks.
Incompatible materials : No data available
Hazardous decomposition products : No data available

11. Toxicological Information**Information on toxicological effects**

Acute toxicity : Classified according to Regulation (EU) 1272/2008

Skin corrosion/irritation : Skin - Rabbit
Result: Corrosive after 3 minutes to 1 hour of exposure - 20 h
(OECD Test Guideline 404)

Serious eye damage/eye irritation : Eyes - Rabbit
Result: Corrosive - 7 d
(OECD Test Guideline 405)

Respiratory or skin sensitization : Maximisation Test (GPMT) - Guinea pig
Result: Causes sensitisation.
May cause allergic skin reaction.
(OECD Test Guideline 406)

Germ cell mutagenicity : No data available

Carcinogenicity : IARC: 1 - Group 1: Carcinogenic to humans (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

Potential health effects

Inhalation : No data available

Ingestion : No data available

Skin : No data available

Eyes : No data available

12. Ecological Information

Toxicity : No data available

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

Other adverse effects : Harmful to aquatic life.

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- Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws.
- Contaminated packaging** : Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

| | UN No. | UN proper shipping name | Hazard Class(es) | Packaging group | Marine Pollutant |
|-------------|--------|-------------------------|------------------|-----------------|------------------|
| DOT | 2209 | FORMALDEHYDE SOLUTION | 8 | III | No |
| IMDG | 2209 | FORMALDEHYDE SOLUTION | 8 | III | No |
| IATA | 2209 | FORMALDEHYDE SOLUTION | 8 | III | No |

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date** :01/08/2014**Version** : 0

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