

FORMALDEHYDE (37% SOLUTION, methanol free)**0695**

October 2004

CAS No: 50-00-0 Methanal
RTECS No: LP8925000 Formalin
UN No: 2209 H₂CO
EC No: 605-001-00-5 Molecular mass: 30.0

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Water in large amounts, water spray.
EXPLOSION			

EXPOSURE		AVOID ALL CONTACT!	
Inhalation	Burning sensation. Cough. Headache. Nausea. Shortness of breath.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes	Causes watering of the eyes. Redness. Pain. Blurred vision.	Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Burning sensation. Nausea. Shock or collapse.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Ventilation. Remove all ignition sources. Chemical protection suit. Personal protection: filter respirator for organic gases and vapours. Do NOT let this chemical enter the environment.	T Symbol R: 23/24/25-34-40-43 S: (1/2-)26-36/37/39-45-51 Note: B, D UN Hazard Class: 8 UN Pack Group: III

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-80S2209 NFPA Code: H2; F2; R0	Cool. Well closed. Keep in a well-ventilated room.

IMPORTANT DATA

Physical State; Appearance

COLOURLESS LIQUID

Chemical dangers

Reacts with acids, alkali metals and strong oxidants.

Occupational exposure limits

TLV: 0.3 ppm (Ceiling value); A2; SEN; (ACGIH 2004).

MAK: 0.3 ppm 0.37 mg/m³; Sh; Peak limitation category: I(2);

Carcinogen category: 4; Germ cell mutagen group: 5; Pregnancy risk group: C; (DFG 2004).

Routes of exposure

The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

Inhalation risk

A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20/C.

Effects of short-term exposure

The substance is severely irritating to the eyes, the skin and is irritating to the respiratory tract.

Effects of long-term or repeated exposure

Repeated or prolonged contact may cause skin sensitization. Repeated or prolonged inhalation exposure may cause asthma-like symptoms. This substance is carcinogenic to humans.

PHYSICAL PROPERTIES

Boiling point: 98/C

Solubility in water: very good

Flash point: 83/C c.c.

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms.

NOTES

Methanol, added as stabilizer or inhibitor to commercial formulations, can influence the physical and toxicological properties of this substance.

See ICSC 0057 Methanol.

The occupational exposure limit value should not be exceeded during any part of the working exposure.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible