

GLUTARALDEHYDE (50% SOLUTION)**0352**
April 2000CAS No: 111-30-8
RTECS No: MA2450000
UN No: 2810
EC No: 605-022-00-X1,5-Pentanedial (50% solution)
 $C_5H_8O_2$ / $HCO(CH_2)_3CHO$
Molecular mass: 100.1

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Not combustible.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			

EXPOSURE		STRICT HYGIENE!	
Inhalation	Cough. Headache. Laboured breathing. Nausea. Wheezing. Sore throat.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	Redness. Roughness. Skin burns. Blisters. Pain.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes	Redness. Pain. Severe deep burns.	Safety goggles 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	Abdominal pain. Nausea. Vomiting.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Wash away remainder with plenty of water. Do NOT let this chemical enter the environment. Chemical protection suit including self-contained breathing apparatus.	T Symbol N Symbol R: 23/25-34-42/43-50 S: (1/2-)26-36/37/39-45-61 UN Hazard Class: 6.1 UN Pack Group: II Do not transport with food and feedstuffs.

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-61GT1-II	Separated from food and feedstuffs.

IMPORTANT DATA

Physical State; Appearance

CLEAR COLOURLESS LIQUID, WITH PUNGENT ODOUR.

Occupational exposure limits

TLV: 0.05 ppm, (Ceiling value); A4 (not classifiable as a human carcinogen); SEN; (ACGIH 2004).

MAK: 0.05 ppm, 0.21 mg/m³; Peak limitation category: I(2); sensitization of respiratory tract and skin (Sah); Carcinogen category: 4; Pregnancy risk group: C; (DFG 2005).

Routes of exposure

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

Inhalation risk

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

Effects of short-term exposure

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

Effects of long-term or repeated exposure

Repeated or prolonged contact with skin may cause dermatitis.
Repeated or prolonged contact may cause skin sensitization.
Repeated or prolonged inhalation exposure may cause asthma (see Notes).

PHYSICAL PROPERTIES

Boiling point: 101/C

Melting point: -6/C

Relative density (water = 1): 1.1

Solubility in water: miscible

Vapour pressure, kPa at 20/C: 2.3

Relative vapour density (air = 1): 1.05

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms.

NOTES

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

The symptoms of asthma often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential.

Anyone who has shown symptoms of asthma due to this substance should avoid all further contact with this substance.

Also consult ICSC #0158 Glutaraldehyde.

Card has been partly updated in October 2005. See sections Occupational Exposure Limits, Emergency Response.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information