

Safety Data Sheet

Formaldehyde

Section 1: Product and Company Identification

Middlesex Gases & Technologies

292 Second Street P.O. Box 490249 Everett, MA 02149 (617) 387-5050 (800) 649-6704 Fax (617) 387-3537 http://www.middlesexgases.com/

Product Code: Formaldehyde

Section 2: Hazards Identification



Hazard Classification:

Acute Dermal Toxicity (Category 3)
Acute Gas Inhale Toxicity (Category 2)
Acute Oral Toxicity (Category 3)
Carcinogenicity (Category 1.B)
Corrosive To Metal (Category 1)
Gases Under Pressure
Germ Cell Mutagenicity (Category 1.B)
Skin Corrosion (Category 1.B)
Skin Sensitizer (Category 1)

Hazard Statements:

Causes severe skin burns and eye damage
Contains gas under pressure; may explode if heated
Fatal if inhaled
May be corrosive to metals
May cause an allergic skin reaction
May cause cancer
May cause genetic defects
Toxic if swallowed
Toxic in contact with skin

Precautionary Statements

Prevention:

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.
[In case of inadequate ventilation] wear respiratory protection.

Do not handle until all safety precautions have been read and understood.

Keep only in original container.

Do not breathe dust/fume/gas/mist/ vapors/spray..

Contaminated work clothing must not be allowed out of the workplace.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, eye protection and face protection.

Obtain special instructions before use.

Response:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Immediately call a poison center or doctor.

Absorb spillage to prevent material damage.

Specific treatment is urgent.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Wash with plenty of water

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Storage:

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

Protect from sunlight.

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

Disposal

Dispose of contents and/or container in accordance with applicable regulations.

Section 3: Composition/Information on Ingredients

CAS # 50-00-0

Chemical Substance	Chemical Family	Trade Names
formaldehyde		formalin

Section 4: First Aid Measures

Do not induce	Move to fresh	Not available
	Do not induce vomiting.	

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide	Carbon oxides	 Not available Not available Not available Wear self contained breathing apparatus if necessary

page 2 of 5

Section 6: Accidental Release Measures

Personal Precautions	Environmental Precautions	Methods for Containment
Wear respiratory protection. Avoid breathing vapors, mist or	Prevent further leakage or spillage if safe to do	Contain spillage
gas.	SO.	

Methods for Cleanup	Other Information	
Collect with an electrically protected vacuum cleaner.	Not available	

Section 7: Handling and Storage

Handling	Storage
Store and use with adequate ventilation. Firmly secure cylinders upright to	Do not get liquid in eyes, on skin, or clothing. Protect cylinders
keep them from falling or being knocked over. Screw valve protection cap	from damage. Use a suitable hand truck to move cylinders; do not
firmly in place by hand. Store only where temperature will not exceed 125°F	drag, roll, slide, or drop. Open valve slowly. Close cylinder valve
(52°C). Store full and empty cylinders separately. Use a first-in, first-out	after each use; keep closed even when empty. If valve is hard to
inventory system to prevent storing full cylinders for long periods.	open, discontinue use and contact your supplier

Section 8: Exposure Controls/Personal Protection

Exposure	Guidelines
0.3 ppm	

Engineering Controls

No specific controls are needed.

Eye Protection	Skin Protection	Respiratory Protection
Tightly fitting safety goggles	Complete suit protecting against chemicals	Not available

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Clear liquid	Clear liquid	Colorless	Not available	Liquid	Not available	Not available

Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
64 deg C -closed cup	Not available	Not available	300 deg C	73 %	7 %

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	рН	Odor Threshold	Evaporation Rate	Viscosity
96 deg C	-15 deg C	10 mm Hg at -88 °C	1.04 (Air=1)	Not available	Not available	Not available	Not available	Not available	Not available

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
30.03 g/mol	CH2O	1.016 g/cm3	Not available	Not available	Not available	Not available

page 3 of 5

Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable under recommended	Stable under recommended	Strong bases, acids, oxidizing agents, alkali metals, strong oxidizing
storage conditions	storage conditions	agents, reducing agents peroxides, phenol, aniline

Hazardous Decomposition Products	Possibility of Hazardous Reactions	
Carbon oxides	Not available	

Section 11: Toxicology Information

Acute Effects

Oral LD50	Dermal LD50	Inhalation
Not available	Not available	Toxic if inhaled

Eye Irritation	Skin Irritation	Sensitization
Causes eye	Toxic if absorbed through skin, causes skin	Target organ effect, toxic by inhalation, toxic by absorption, skin
burns	burns	sensititiser

Chronic Effects

Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
IARC: Group 1: carcinogenic to humans	Not available	Not available	No data

Section 12: Ecological Information

Fate and Transport

Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Fish toxicity: not available Invertibrate toxicity: not available Algal toxicity: not available Phyto toxicity: not available Other toxicity: not available	Not available	Not available	Not available

Section 13: Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Formaldehyde solutions, flammable	UN1198	3	III	Not available	Not available	Not available	Not available

Canadian Transportation of Dangerous Goods

Shipping Name		UN Number	Class	Packing Group / Risk Group
Formaldehyde solutions,	flammable	UN1198	3	III

page 4 of 5

Section 15: Regulatory Information

U.S. Regulations

CERCLA Sections	SARA 355.30	SARA 355.40
Not available	Not available	Not available

SARA 370.21

Acute	Chronic	Fire	Reactive	Sudden Release
Not available				

SARA 372.65

Not available

OSHA Process Safety

Not available

State Regulations

CA Proposition 65

This product contains a chemical known to the state of California to cause cancer.

Canadian Regulations

WHMIS Classification
Not available

National Inventory Status

US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)	
Not available	Not available	Not available	

Section 16: Other Information

NFPA Rating

Health: 3, Fire:2, Reactivity:0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard