

SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: Methanesulfonic acid 98%

Product Code: M06060

Supplier: Pfaltz & Bauer, Inc.

172 E. Aurora Street Waterbury, CT 06708

Phone: 203-574-0075

FAX: 203-574-3181

Emergency Phone: CHEMTREC, US: 1-800-424-9300

CHEMTREC, International: 1-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

<u>Statement of Hazard:</u> Corrosive, Environmentally hazardous, Irritant, Respiratory irritant

<u>Acute Health Hazard:</u> Irritant to eyes, skin, mucous membranes and respiratory system.

May be harmful by ingestion, skin absorption and inhalation.

<u>Chronic Health Hazard:</u> Not Available

HMIS Rating: H: 3 F: 0 P: 0

NFPA Rating: H: 3 F: 0 R: 0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

Pictogram:



Signal Word: Danger

Hazard Statement(s): H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long-lasting effects.

<u>Precautionary Statement(s):</u> P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling. P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting.

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off Immediately

all contaminated clothing. Rinse SKIN with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a

position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name: Methanesulfonic acid 98%

<u>CAS Number:</u> 75-75-2

MDL Number: MFCD00007518

EINECS Number: 200-898-6

Beilstein Registry Number: 1446024

Molecular Formula: CH₄SO₃

Molecular Weight: 96.11

<u>Content:</u> As specified in product name.

SECTION 4: FIRST AID MEASURES

Eye Contact: Flush eyes with large amounts of water for fifteen minutes. Separate

eyelids with fingers. If irritation persists, seek medical attention.

Skin Contact: Wash skin with soap and water. If irritation persists, seek medical

attention.

<u>Ingestion:</u> Do not induce vomiting. Seek medical attention.

<u>Inhalation:</u> Move to a fresh air environment. Contact a physician if breathing

becomes difficult.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point (°C):

Explosion Limits: Lower, % by volume: Not Available

Upper, % by volume: 24.3

<u>Auto Ignition</u> Not Available

Temperature (°C):

Extinguishing Media: Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water

spray

Protective Equipment: Wear self-contained respirator and fully protective impervious suit.

Specific Hazards: May emit hazardous fumes under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

<u>Personal Protection:</u> Wear a self-contained breathing apparatus, rubber boots and gloves,

and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and

contact proper authorities if needed. Keep unprotected persons away.

Environmental Protection: Keep spills out of sewers and bodies of water. Dike and contain the

spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area

and wash spill site after material pickup is complete.

SECTION 7: HANDLING and STORAGE

<u>Handling and Storage:</u> Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and

eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources

away

Store in a tightly closed container in a dry, well-ventilated place.

Hygroscopic, store away from water.

Sensitivities: Hygroscopic, Light

Storage Temperature (°C): 15 to 30

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use product in a well ventilated area or under a fume hood. Use proper

lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.

Eye Protection: Wear appropriate protective eyeglass or chemical safety goggles. Make

sure that there is an eyewash station in your vicinity.

Skin Protection: Wear impervious gloves and protective clothing.

Respiratory Protection: Use a NIOSH approved respirator when exposure limits are exceeded or

if irritation or other symptoms are experienced.

Exposure Limits: Country Source Type Value

USA ACGIH TWA Not Available
USA OSHA STEL Not Available
USA OSHA PEL Not Available

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Appearance: Light yellow liquid

Odor: Not Available

Odor Threshold: Not Available

Flash Point (°C):

Auto Ignition Not Available

Temperature (°C):

UEL % by Volume: 24.3

LEL % by Volume: Not Available

Melting Point (°C): 17-20

Boiling Point (°C): 166-168/10mm

<u>Evaporation Rate:</u> Not Available

pH Value: Not Available

<u>Density (g/cm³):</u> 1.481

Refractive Index (n²⁰_D): 1.429

<u>Viscosity:</u> Not Available

Solubility in Water: Not Available

Solubility in Other: Not Available

Vapor Pressure (mmHg): Not Available

Vapor Density (Air=1): Not Available

SECTION 10: STABILITY and REACTIVITY

Stability: Stable under normal temperatures and pressures.

<u>Incompatibility:</u> Amines, Bases, Strong oxidizing agents, Strong reducing agents

<u>Reactivity:</u> Product may react with incompatible materials to release other

hazardous substances.

<u>Conditions to Avoid:</u> Heat, flame, sparks, other ignition sources.

<u>Hazardous</u> Carbon oxides, Sulfur oxides

Decomposition Products:

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Reference: PB1140000

Target Organs: Not Available

Toxicity Data: Oral Rat LD50 mg/kg: 649.00

Dermal Rabbit LD₅₀ mg/kg: 1,000.00

<u>Carcinogenicity:</u> National Toxicology Program (NTP) listed:

Not Available

International Agency for Research on Cancer (IARC) listed:

Not Available

Potential Symptoms: Not Available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Rainbow trout LC50: 73.00 mg/l - 96.00 hrs.

Water flea LC₅₀: 70.00 mg/l - 48.00 hrs. Green Algae LC₅₀: 7.20 mg/l - 72.00 hrs.

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

<u>DOT Shipping Name:</u> Corrosive Liquid, Acidic, Organic, N.O.S.

DOT UN Number: UN3265

DOT Hazard Class: Class 8

DOT Packing Group: PGII

<u>IMDG Shipping Name:</u> Corrosive Liquid, Acidic, Organic, N.O.S.

IMDG UN Number: UN3265

IMDG Hazard Class: Class 8

IMDG Packing Group: PGII

Marine Pollutant: No

IATA: Corrosive Liquid, Acidic, Organic, N.O.S.

IATA UN Number: UN3265

IATA Hazard Class: Class 8

IATA Packing Group: PGII

SECTION 15: REGULATORY INFORMATION

United States

Toxic Substance Control Act (TSCA) listed: Yes

Superfund Amendments and Reauthorization Act (SARA 302) listed: No

Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No

Superfund Amendments and Reauthorization Act (SARA 313) listed: No

European Union

European Inventory of Existing Chemical Substances (EINECS): 200-898-6

<u>Canada</u>

Canadian Domestic Substances List (DSL) listed: Yes

Canadian Non-Domestic Substances List (NDSL) listed: No

SECTION 16: OTHER INFORMATION

Date Prepared: 10/3/2014

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgement to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.