Safety Data Sheet

Date of Revision: 1/26/2018

Methanesulfonic Acid 70%

Section 1 - Chemical Product and Company Identification

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Product/Chemical Name: Methanesulfonic Acid
Chemical Formula: CH_4O_3S
CAS Number: 75-75-2
Other Designations: MSA
Emergency Telephone: **(ChemTel) Contract MIS0000335; 800 255-3924; INTL 813 248-0585**

Section 2 - Hazards Identification

☆☆☆☆☆ **Emergency Overview** ☆☆☆☆☆
Danger! May cause pulmonary edema. Causes burns by all exposure routes. Toxic if swallowed. Toxic if absorbed through the skin.

HMIS	
H	3
F	1
R	1
PPE†	
†Sec. 8	

Potential Health Effects

Target Organs: Respiratory system, gastrointestinal system, eyes, skin
Primary Entry Routes: skin contact/absorption, inhalation

HAZARDS IDENTIFICATION
Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Corrosive to metals (Category 1), H290
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Dermal (Category 4), H312
Skin corrosion (Category 1A), H314
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 2), H401
GHS Label elements, including precautionary statements
Pictogram

Signal word Danger

Hazard statement(s)
H290 May be corrosive to metals.
H302 + H312 Harmful if swallowed or in contact with skin
H314 Causes severe skin burns and eye damage.
H401 Toxic to aquatic life.

Precautionary statement(s)
P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
P310 Immediately call a POISON CENTER or doctor/ physician.
P322 Specific measures (see supplemental first aid instructions on this label).
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
P405 Store locked up.
P406 Store in corrosive resistant stainless steel container with a resistant inner liner.
P501 Dispose of contents/ container to an approved waste disposal plant.
Hazards not otherwise classified (HNOC) or not covered by GHS - none

Acute Effects

Eye: Causes eye burns. Causes redness and pain.
Skin: Causes skin burns. Causes redness and pain. Toxic in contact with skin.
Ingestion: Causes gastrointestinal tract burns. Toxic if swallowed.
Inhalation: Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.
Chronic: No information found..

Carcinogenicity: IARC, NTP, ACGIH, OSHA and CA Prop 65 do not list Methanesulfonic Acid as a carcinogen.
Medical Conditions Aggravated by Long-Term Exposure:

Section 3 - Composition / Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
75-75-2	Methanesulfonic Acid	70	200-898-6

Appearance/General Info:

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Methanesulfonic Acid	None listed	None listed	None listed

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.
After first aid, get appropriate in-plant, paramedic, or community medical support.
Note to Physicians: Treat symptomatically and supportively.

Section 5 - Fire-Fighting Measures

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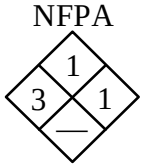
Flash Point: > 109 °C (> 228.20 °F)
Autoignition Temperature: Not applicable
LEL: Not available.
UEL: Not available.
Flammability Classification: Solid which exhibits difficult combustion or is difficult to ignite.
Extinguishing Media: Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.



Unusual Fire or Explosion Hazards: Avoid generating dust, particularly clouds of dust in a confined or unventilated space, as dust may form an explosive mixture with air and any source of ignition, e.g., flame or spark, will cause fire or explosion.
Hazardous Combustion Products: Irritating and toxic fumes and gases.
Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.
Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Eliminate all ignition sources. Ventilate area.
Small Spills: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section.
Large Spills
Containment: For large spills, Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section).
Cleanup: Provide ventilation. Do not let this chemical enter the environment. Do not release into sewers or waterways.
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Keep container tightly closed. Avoid ingestion and inhalation.
Storage Requirements: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store in direct sunlight. Corrosives area.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:
Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.
Administrative Controls:
Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.
Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.
Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.
Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Color: colorless to light yellow
Odor: Not available
pH: Not available
Vapor Pressure: 1 mbar @ 20 °C
Vapor Density: Not available
Evaporation Rate: Not available
Viscosity: Not available

Boiling Point: 167 °C (332.60 °F)
Freezing/Melting Point: 18 °C (64.40 °F)
Decomposition Temperature: Not available
Solubility in water: Reacts
Specific Gravity/Density: 1.3450g/cm^3
Molecular Formula: CH_4O_3S
Molecular Weight: 96.10

Section 10 - Stability and Reactivity

Chemical Stability: Light sensitive.
Conditions to Avoid: Incompatible materials, light, excess heat.
Incompatibilities with Other Materials Strong reducing agents, acids, bases, brass, copper, iron, steel, alkalies, lead.
Hazardous Decomposition Products Carbon monoxide, oxides of sulfur, carbon dioxide.
Hazardous Polymerization Will not occur.

Section 11- Toxicological Information

Toxicity Data:*

Acute Toxicity
Oral LD50 Category 4. ATE = 300 - 2000 mg/kg.
Rat, oral, LD_{50}: 649 mg/kg
Dermal, LD50 = 1000 - 2000 mg/kg (Rabbit)

Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Neurotoxicity: No information available.
Mutagenicity: No information available.

* See NIOSH, *RTECS(PB1140000)*, for additional toxicity data.

Section 12 - Ecological Information

Ecotoxicity: No data available.
Environmental:
Physical: No information found.

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.
Disposal Regulatory Requirements:
Container Cleaning and Disposal:

Section 14 - Transport Information

Regulated for transportation

US DOT(49 CFR 172.101): PSN: Corrosive liquid, acidic, organic, n.o.s. (Methane sulphonic acid) Hazard Class: 8 UN Number: 3265 Packing Group: III	**IATA** PSN: Corrosive liquid, acidic, organic, n.o.s. (Methane sulphonic acid) Hazard Class: 8 UN Number: 3265 Packing Group: III
TDG PSN: Corrosive liquid, acidic, organic, n.o.s. (Methane sulphonic acid) Hazard Class: 8 UN Number: 3265 Packing Group: III	**IMDG/IMO** PSN: Corrosive liquid, acidic, organic, n.o.s. (Methane sulphonic acid) Hazard Class: 8 UN Number: 3265 Packing Group: III

Section 15 - Regulatory Information

US FEDERAL

TSCA
CAS# 75-75-2 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 75-75-2: immediate.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 75-75-2 can be found on the following state right to know lists: New Jersey.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

C

Risk Phrases:

R 34 Causes burns.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36 Wear suitable protective clothing.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 75-75-2: 2

Canada - DSL/NDSL

CAS# 75-75-2 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of E, D1B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Section 16 - Other Information

Disclaimer: All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable: However, it is the users responsibility to determine the safety, toxicity and suitability for its own use of this product. WEGO CHEMICAL GROUP DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE USE BY OTHERS OF THIS PRODUCT.