

Material Safety Data Sheet Methyl methanesulfonate

MSDS# 77716

Section 1 - Chemical Product and Company Identification

MSDS Name: Methyl methanesulfonate

Catalog AC156890000, AC156890050, AC156890250, AC414530000, AC414530050, AC414530250

Numbers: AC414530250

Synonyms: MMS.

Acros Organics BVBA

Janssen Pharmaceuticalaan 3a Company Identification:

2440 Geel, Belgium

Acros Organics One Reagent Lane Company Identification: (USA)

Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01 For information in Europe, call: +32 14 57 52 11 Emergency Number, Europe: +32 14 57 52 99 Emergency Number US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 66-27-3

Chemical Name: Methyl methanesulfonate

%: 99

EINECS#: 200-625-0

Τ Hazard Symbols:



Risk Phrases: 45 22 36/37/38 68

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Cancer suspect agent. Harmful if swallowed. Causes eye, skin, and respiratory tract irritation. Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Causes eye irritation. Strong irritant of the eyes. Eye:

Causes skin irritation. May be harmful if absorbed through the skin. Strong irritant of the skin. Not expected to Skin:

cause an allergic skin reaction.

Ingestion: Harmful if swallowed.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Chronic: Possible cancer hazard based on tests with laboratory animals. Chronic exposure may cause liver damage.

Section 4 - First Aid Measures

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid Eyes:

immediately.

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing Skin:

contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by Ingestion:

mouth to an unconscious person. Get medical aid.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Inhalation:

Get medical aid

Notes to Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH General Information:

(approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition Temperature: Not available

Flash Point: 104 deg C (219.20 deg F)

Explosion Limits: Not available Lower:

Explosion Limits: Not available Upper:

NFPA Rating: health: 2; flammability: 1; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist.

Storage: Store in a cool, dry place.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	++ OSHA - Final PELs
Methyl methanesulfo	none listed	none listed	none listed
nate			
+		+	++

OSHA Vacated PELs: Methyl methanesulfonate: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the Respirators:

positive pressure mode with emergency escape provisions.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: clear colorless to pale yellow

Odor: slight

pH: Not available

Vapor Pressure: 0.31 mm Hg @ 25 deg C

Vapor Density: 3.8 (air=1) Evaporation Rate: Not available

> Viscosity: Not available Boiling Point: 202-203 deg C

Freezing/Melting Point: Not available Decomposition Temperature: Not available

Solubility in water: 200 g/l @ 20°C

Specific Gravity/Density: 1.3000 Molecular Formula: C2H6O3S Molecular Weight: 110.13

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Excess heat.

Incompatibilities with Other Materials Strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide, oxides of sulfur, carbon dioxide.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 66-27-3: PB2625000

RTECS:

LD50/LC50: CAS# 66-27-3: Oral, mouse: LD50 = 290 mg/kg;

Oral, rat: LD50 = 225 mg/kg;

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Carcinogenicity: Methyl methanesulfonate - California: carcinogen, initial date 4/1/88 NTP: Suspect carcinogen IARC:

Group 2A carcinogen

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S.*

Hazard Class: 6.1 UN Number: UN2810 Packing Group: III Canada TDG

Shipping Name: Not available

Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 45 May cause cancer.

R 22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 68 Possible risk of irreversible effects.

Safety Phrases:

S 53 Avoid exposure - obtain special instructions before use.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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# 66-27-3: Not available

Canada

CAS# 66-27-3 is listed on Canada's DSL List Canadian WHMIS Classifications: D1B, D2A

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.

CAS# 66-27-3 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 66-27-3 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 8/24/1997 Revision #8 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
