



Material Safety Data Sheet  
Sodium thiomethoxide, 95%

MSDS# 98009

### Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium thiomethoxide, 95%  
Catalog Numbers: AC305710000, AC305710010, AC305710050, AC305710250, NC9869308, SB01471DA, SB01471EA, SB01471EE  
Synonyms: Methanethiol, sodium salt; Methyl mercaptan sodium salt; Sodium methanethiolate; Sodium thiomethylate; Thiomethoxide, sodium

Company Identification: Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

Company Identification: (USA) Acros Organics  
One Reagent Lane  
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#: 5188-07-8  
Chemical Name: Sodium thiomethoxide  
%: 95  
EINECS#: 225-969-9

Hazard Symbols:



Risk Phrases:

F C



11 20/21/22 34

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Danger! Flammable solid. Corrosive. Water-reactive. Light sensitive. Air sensitive. Harmful if swallowed, inhaled, or absorbed through the skin. Causes burns by all exposure routes. May ignite or explode on contact with moist air. Reacts violently and/or explosively with water, steam or moisture. Target Organs: Respiratory system, gastrointestinal system, eyes, skin.

#### Potential Health Effects

Eye: Causes eye burns.

Skin: Causes skin burns. Causes redness and pain.

Ingestion: Causes gastrointestinal tract burns. Ingestion may cause headache, nausea, and vomiting.

Inhalation: May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Causes chemical burns to the respiratory tract.

Chronic: Chronic exposure may cause effects similar to those of acute exposure.

#### Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician:

#### Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Water reactive. Material will react with water and may release a flammable and/or toxic gas. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. Flammable solid. May ignite or explode on contact with steam or moist air. May re-ignite after fire is extinguished.

Extinguishing Media: Use approved class D extinguishing agents or smother with dry sand, clay, or sodium bicarbonate. DO NOT USE WATER! Do NOT get water inside containers. Contact professional fire-fighters immediately.

Autoignition Temperature: Not applicable.

Flash Point: 27 deg C ( 80.60 deg F)

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating: ; Special Hazard: -W-

#### Section 6 - Accidental Release Measures

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

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Do not expose spill to water.

#### Section 7 - Handling and Storage

Handling: Remove contaminated clothing and wash before reuse. Do not allow water to get into the container because of violent reaction. Minimize dust generation and accumulation. Use spark-proof tools and explosion proof equipment. Do not breathe dust, mist, or vapor. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Store protected from light. Use and store under nitrogen. Do not allow contact with water. Use only in a chemical fume hood. Keep from contact with moist air and steam.

Storage: Keep away from sources of ignition. Keep container closed when not in use. Store in a tightly closed container. Keep under a nitrogen blanket. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from water. Flammables-area. Store protected from light.

#### Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium thiomethoxide	none listed	none listed	none listed

OSHA Vacated PELs: Sodium thiomethoxide: None listed

Engineering Controls:

Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an

eyewash facility and a safety shower. Use only under a chemical fume hood.

#### Exposure Limits

#### Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

#### Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder

Color: beige granular crystalline powder

Odor: stench

pH: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: Not available

Decomposition Temperature: Not available

Solubility in water: Reacts

Specific Gravity/Density:

Molecular Formula: CH<sub>3</sub>NaS

Molecular Weight: 70.09

#### Section 10 - Stability and Reactivity

Chemical Stability: Combines vigorously or explosively with water. Air sensitive. Sensitive to light.

Conditions to Avoid: Incompatible materials, light, dust generation, exposure to air, exposure to moist air or water.

Incompatibilities with Other Materials: Water, strong oxidizing agents, acids.

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

Hazardous Polymerization: Has not been reported.

#### Section 11 - Toxicological Information

RTECS#: CAS# 5188-07-8: None listed

LD50/LC50: RTECS: Not available.

Carcinogenicity: Sodium thiomethoxide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated.

#### Section 12 - Ecological Information

Other: Do not empty into drains.

#### Section 13 - Disposal Considerations

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

#### Section 14 - Transport Information

US DOT

Shipping Name: CORROSIVE SOLIDS, FLAMMABLE, N.O.S.

Hazard Class: 8

UN Number: UN2921

Packing Group: II

Canada TDG

Shipping Name: SELF-HEATING SOLID CORROSIVE NOS (SODIUM THIOMETHOXIDE)

Hazard Class: 4.208

UN Number: UN3126

Packing Group: II

## Section 15 - Regulatory Information

### European/International Regulations

#### European Labeling in Accordance with EC Directives

Hazard Symbols: F C

Risk Phrases:

R 11 Highly flammable.

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 34 Causes burns.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 25 Avoid contact with eyes.

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# 5188-07-8: Not available

#### Canada

CAS# 5188-07-8 is listed on Canada's NDSL List

Canadian WHMIS Classifications: B4, E, D1B, F

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# 5188-07-8 is not listed on Canada's Ingredient Disclosure List.

#### US Federal

##### TSCA

CAS# 5188-07-8 is listed on the TSCA Inventory.

## Section 16 - Other Information

MSDS Creation Date: 4/29/1999

Revision #5 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 merchantability 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.

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