



## Material Safety Data Sheet

Date Printed: 01/18/2007  
 Date Updated: 01/27/2006  
 Version 1.50

### Section 1 - Product and Company Information

**Product Name** (+/-)-GEOSMIN AND 2-METHYLISOBORNEOL, 1X1ML, MEOH 100UG/ML  
**Product Number** 47525-U  
**Brand** Supelco Chemical

**Company** Sigma-Aldrich  
**Street Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 800-325-5832  
**Fax:** 800-325-5052

**Emergency Phone:** 314-776-6555

### Section 2 - Composition/Information on Ingredient

| <b>Substance Name</b>                          | <b>CAS #</b>            | <b>SARA 313</b>                    | <b>EC no</b>           | <b>Annex I Index Number</b> |
|--|-------------------------|------------------------------------|------------------------|-----------------------------|
| GEOSMIN AND 2-METHYLISOBORNEOL, IN<br>METHANOL | None                    | Yes                                |                        |                             |
| <b>Ingredient Name</b>                         |                         |                                    |                        |                             |
| METHANOL                                       | <b>CAS #</b><br>67-56-1 | <b>Percent</b><br>>= 99.980 %      | <b>SARA 313</b><br>Yes |                             |
| (+/-)-GEOSMIN<br>2-METHYLISOBORNEOL            | None<br>2371-42-8       | <= 100.000 %<br>0.010 %<br>0.010 % |                        | No                          |

**Formula**  
**Synonyms**

### Section 3 - Hazards Identification

#### Emergency Overview

Flammable (USA) Highly Flammable (EU). Toxic. Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. Target organ(s): Eyes, Kidneys.

#### HMIS Rating

Health: 2\* Flammability: 3 Reactivity: 0

#### NFPA Rating

Health: 2 Flammability: 3 Reactivity: 0

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

#### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

#### Inhalation Exposure

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

#### Dermal Exposure

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

#### Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### Section 5 - Fire Fighting Measures

**Flammable Hazards:** Yes

#### Explosion Hazards

Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

**Flash Point:** 52 °F

11 °C

**Autoignition Temp:** N/A

**Flammability:** Yes

#### Extinguishing Media Suitable

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

#### Firefighting

#### Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### Specific Hazard(s)

Flammable liquid. Emits toxic fumes under fire conditions.

### Section 6 - Accidental Release Measures

#### Procedure to be Followed in Case of Leak or Spill

Evacuate area. Shut off all sources of ignition.

#### Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

#### Methods for Cleaning Up

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

#### Environmental Precaution(s)

Do not allow material to enter drains or water courses. Avoid contaminating sewers and waterways with this material.

### Section 7 - Handling and Storage

#### Handling

#### User Exposure

Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Do not use if skin is cut or scratched. Wash thoroughly after handling.

**Storage**  
**Suitable**  
Keep tightly closed. Keep away from heat, sparks, and open flame.

## Section 8 - Exposure Controls / PPE

**Engineering Controls**  
Safety shower and eye bath. Use nonsparking tools. Use only in a chemical fume hood.

### Personal Protective Equipment

#### Respiratory

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Use supplied-air or SCBA respirators. Europe permits the use of type AXBEK full-face cartridge respirators (EN 14387).

#### Hand

Compatible chemical-resistant gloves.

#### Eye

Chemical safety goggles.

### General Hygiene Measures

Wash thoroughly after handling. Discard contaminated clothing and shoes.

| Exposure Limits   | Type  | Value     |
|-------------------|-------|-----------|
| Country<br>Poland | NDS   | 100 MG/M3 |
| Remarks: METHANOL | NDSCh | 300 MG/M3 |
| Poland            | NDSP  | -         |
| Remarks: METHANOL |       |           |

## Section 9 - Physical/Chemical Properties

**Appearance**  
**Physical State**  
Liquid

**Molecular Weight:** N/A

**pH** N/A

**BP/BP Range** N/A

**MP/MP Range** N/A

**Freezing Point** N/A

**Vapor Pressure** N/A

**Vapor Density** N/A

**Saturated Vapor Conc.** N/A

**SG/Density** N/A

**Bulk Density** N/A

**Odor Threshold** N/A

**Volatile%** N/A

**VOC Content** N/A

**Water Content** N/A

**Solvent Content** N/A

**Evaporation Rate** N/A

**Viscosity** N/A

**Partition Coefficient** N/A

**Decomposition Temp.** N/A

**Flash Point °F** 52 °F

**Flash Point °C** 11 °C

**Explosion Limits** N/A

Supelco Chemical - 47525-U

Page 3

**Sigma-Aldrich Corporation**  
[www.sigma-aldrich.com](http://www.sigma-aldrich.com)

**Flammability** N/A  
**Autoignition Temp** N/A  
**Solubility** N/A

N/A = not available

## Section 10 - Stability and Reactivity

### Stability

Stable.

### Materials to Avoid

Acids, Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents.

### Hazardous Decomposition Products

#### Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide.

### Hazardous Polymerization

#### Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

### Route of Exposure

#### Skin Contact

May cause skin irritation.

#### Skin Absorption

Toxic if absorbed through skin.

#### Eye Contact

May cause eye irritation.

#### Inhalation

Toxic if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

#### Ingestion

Toxic if swallowed.

### Target Organ(s) or System(s)

Eyes. Kidneys. Liver. Heart.

### Signs and Symptoms of Exposure

Methyl alcohol may be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Ingestion can cause: Nausea, headache, and vomiting. Gastrointestinal disturbances. Dizziness. Weakness. Confusion. Drowsiness. Unconsciousness. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**RTECS Number:** N/A

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

### Appropriate Method of Disposal of Substance or Preparation

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

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

Observe all federal, state, and local environmental regulations.

Supelco Chemical - 47525-U

Page 4

**Sigma-Aldrich Corporation**  
[www.sigma-aldrich.com](http://www.sigma-aldrich.com)

## Section 14 - Transport Information

### DOT

**Proper Shipping Name:** Methanol  
**UN#:** 1230  
**Class:** 3  
**Packing Group:** Packing Group II  
**Hazard Label:** Flammable liquid  
**PIH:** Not PIH

### IATA

**Proper Shipping Name:** Methanol solution  
**IATA UN Number:** 1230  
**Hazard Class:** 3  
**Packing Group:** II

## Section 15 - Regulatory Information

### EU Additional Classification

**Symbol of Danger:** F T

#### Indication of Danger

Highly Flammable, Toxic.

#### Risk Statements

R: 11 23/24/25 39/23/24/25

Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

#### Safety Statements

S: 16 38/37 45

Keep away from sources of ignition - no smoking. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### US Classification and Label Text

#### Indication of Danger

Flammable (USA) Highly Flammable (EU). Toxic.

#### Risk Statements

Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Irritating to eyes and skin.

#### Safety Statements

Keep container tightly closed. Keep away from sources of ignition - no smoking. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### US Statements

Target organ(s): Eyes. Kidneys.

### United States Regulatory Information

#### SARA Listed: Yes

**Notes:** This product is or contains a component that is subject to SARA313 reporting requirements.

### Canada Regulatory Information

#### WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

## Section 16 - Other Information

### Disclaimer

For R&D use only. Not for drug, household or other uses.

### Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

Supelco Chemical - 47525-U

Page 5

**Sigma-Aldrich Corporation**  
[www.sigma-aldrich.com](http://www.sigma-aldrich.com)

Supelco Chemical - 47525-U

Page 6

**Sigma-Aldrich Corporation**  
[www.sigma-aldrich.com](http://www.sigma-aldrich.com)

