

# SAFETY DATA SHEET

# spectrum®



Revision date 29-January-2021

Revision Number 1

## 1. Identification

### Product identifier

**Product Name** 1-(TRIMETHYLSILYL)IMIDAZOLE

### Other means of identification

**Product Code(s)** T2157

**UN/ID no** UN1993

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended use** No information available

**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

#### Supplier Address

Spectrum Chemical Mfg. Corp.  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

### Emergency telephone number

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

### Classification

|  |             |
|--|-------------|
| Skin corrosion/irritation                        | Category 2  |
| Serious eye damage/eye irritation                | Category 2A |
| Specific target organ toxicity (single exposure) | Category 3  |
| Flammable liquids                                | Category 2  |

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

**Danger**

#### Hazard statements

Causes skin irritation  
Causes serious eye irritation  
May cause respiratory irritation

Highly flammable liquid and vapor



**Appearance** Clear

**Physical state** Liquid

**Odor** No information available

#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ ventilating / lighting/ .? / equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Wear protective gloves/eye protection/face protection  
Keep cool

#### Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention  
If skin irritation occurs: Get medical advice/attention  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
Wash contaminated clothing before reuse  
IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Call a POISON CENTER or doctor if you feel unwell  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish

#### Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed  
Store locked up.

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Other information

No information available.

### 3. Composition/information on ingredients

#### Substance

| Chemical name               | CAS No     | Weight-% | Trade secret |
|-----------------------------|------------|----------|--------------|
| 1-(Trimethylsilyl)imidazole | 18156-74-6 | 100      | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

#### Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance.

|   |  |
|---|--|
| <b>Inhalation</b>                         | Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.   |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.                            |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.   |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.  |
| <b>Self-protection of the first aider</b> | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. |

#### **Most important symptoms and effects, both acute and delayed**

**Symptoms** May cause redness and tearing of the eyes. Burning sensation.

#### **Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

### **5. Fire-fighting measures**

|   |   |
|---|---|
| <b>Suitable Extinguishing Media</b><br>Large Fire     | Dry chemical. Carbon dioxide (CO <sub>2</sub> ). water spray. Alcohol resistant foam.<br>CAUTION: Use of water spray when fighting fire may be inefficient.   |
| <b>Unsuitable extinguishing media</b>                 | Do not scatter spilled material with high pressure water streams.   |
| <b>Specific hazards arising from the chemical</b>     | risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| <b>Explosion data</b>                                 |   |
| <b>Sensitivity to mechanical impact</b>               | none.   |
| <b>Sensitivity to static discharge</b>                | yes.  |
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.  |

### **6. Accidental release measures**

#### **Personal precautions, protective equipment and emergency procedures**

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. |
| <b>Other information</b>    | Ventilate the area. Refer to protective measures listed in Sections 7 and 8.   |

#### **Methods and material for containment and cleaning up**

|                                |   |
|--------------------------------|---|
| <b>Methods for containment</b> | Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other |
|--------------------------------|---|

non-combustible material and transfer to containers for later disposal.

#### **Methods for cleaning up**

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## **7. Handling and storage**

### **Precautions for safe handling**

#### **Advice on safe handling**

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

### **Conditions for safe storage, including any incompatibilities**

#### **Storage Conditions**

Moisture sensitive. Protect from moisture. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

## **8. Exposure controls/personal protection**

### **Control parameters**

#### **Exposure Limits**

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

### **Appropriate engineering controls**

#### **Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

### **Individual protection measures, such as personal protective equipment**

#### **Eye/face protection**

Tight sealing safety goggles.

#### **Hand protection**

Wear suitable gloves. Impervious gloves.

#### **Skin and body protection**

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

#### **Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

#### **General hygiene considerations**

Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|                |                          |
|----------------|--------------------------|
| Physical state | Liquid                   |
| Appearance     | Clear                    |
| Color          | Colorless; Yellow        |
| Odor           | No information available |
| Odor threshold | No information available |

| <u>Property</u>                        | <u>Values</u>                 | <u>Remarks • Method</u> |
|--|-------------------------------|-------------------------|
| pH                                     | no data available             | None known              |
| Melting point / freezing point         | no data available             | None known              |
| Boiling point / boiling range          | 93 - 94 °C / 199.4 - 201.2 °F | None known              |
| Flash point                            | 5 °C / 41 °F                  | None known              |
| Evaporation rate                       | no data available             | None known              |
| Flammability (solid, gas)              | no data available             | None known              |
| Flammability Limit in Air              |                               | None known              |
| Upper flammability or explosive limits | No data available             |                         |
| Lower flammability or explosive limits | No data available             |                         |
| Vapor pressure                         | No data available             | None known              |
| Vapor density                          | 4.8                           | None known              |
| Relative density                       | 0.956                         | None known              |
| Water solubility                       | Decomposes in water           | None known              |
| Solubility(ies)                        | no data available             | None known              |
| Partition coefficient                  | No data available             | None known              |
| Autoignition temperature               | no data available             | None known              |
| Decomposition temperature              |                               | None known              |
| Kinematic viscosity                    | no data available             | None known              |
| Dynamic viscosity                      | No data available             | None known              |

### Other information

|                      |                          |
|----------------------|--------------------------|
| Explosive properties | No information available |
| Oxidizing properties | No information available |
| Softening point      | No information available |
| Molecular weight     | 140.26                   |
| VOC Content (%)      | No information available |
| Liquid Density       | No information available |
| Bulk density         | No information available |

## 10. Stability and reactivity

|                                    |  |
|------------------------------------|--|
| Reactivity                         | No information available.                            |
| Chemical stability                 | Stable under recommended storage conditions.         |
| Possibility of hazardous reactions | None under normal processing.                        |
| Conditions to avoid                | Heat, flames and sparks.                             |
| Incompatible materials             | Strong acids. Strong bases. Strong oxidizing agents. |
| Hazardous decomposition products   | None known based on information supplied.            |

## 11. Toxicological information

### Information on likely routes of exposure

## Product Information

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.                                      |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.       |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).                                  |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes.

## Acute toxicity

**Numerical measures of toxicity**  
No information available

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Irritating to skin.            |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes serious eye irritation. |
| <b>Respiratory or skin sensitization</b> | No information available.  |
| <b>Germ cell mutagenicity</b>            | No information available.  |
| <b>Reproductive toxicity</b>             | No information available.  |
| <b>STOT - single exposure</b>            | May cause respiratory irritation.  |
| <b>STOT - repeated exposure</b>          | No information available.  |
| <b>Aspiration hazard</b>                 | No information available.  |
| <b>Other adverse effects</b>             | No information available.  |
| <b>Interactive effects</b>               | No information available.  |

## 12. Ecological information

|                                      |   |
|--------------------------------------|---|
| <b>Ecotoxicity</b>                   | The environmental impact of this product has not been fully investigated. |
| <b>Persistence and degradability</b> | No information available.   |
| <b>Bioaccumulation</b>               | Inherently biodegradable.   |
| <b>Other adverse effects</b>         | No information available.   |

## 13. Disposal considerations

### Waste treatment methods

|  |  |
|--|--|
| <b>Waste from residues/unused products</b> | Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld  |

containers.

## 14. Transport information

### DOT

**UN/ID no** UN1993  
**Proper Shipping Name:** Flammable liquids, n.o.s.  
**Hazard class** 3  
**Packing group:** II  
**Special Provisions** IB2, T7, TP1, TP8, TP28  
**Marine Pollutant** Severe Marine Pollutant  
**Description:** UN1993, Flammable liquids, n.o.s. (1-(Trimethylsilyl)imidazole), 3, II  
**Emergency Response Guide Number** 128

### TDG

**UN-No:** UN1993  
**Proper Shipping Name:** Flammable liquid, n.o.s.  
**Hazard class** 3  
**Packing Group:** II  
**Description:** UN1993, Flammable liquid, n.o.s. (1-(Trimethylsilyl)imidazole), 3, II

### MEX

**UN-No** UN1993  
**Proper Shipping Name** Flammable liquid, n.o.s.  
**Hazard class** 3  
**Special Provisions** 274  
**Packing Group** II  
**Description** UN1993, Flammable liquid, n.o.s. (1-(Trimethylsilyl)imidazole), 3, II

### ICAO (air)

**UN-No:** UN1993  
**Proper Shipping Name:** Flammable liquid, n.o.s.  
**Hazard class** 3  
**Packing Group:** II  
**Special Provisions** A3  
**Description:** UN1993, Flammable liquid, n.o.s. (1-(Trimethylsilyl)imidazole), 3, II

### IATA

**UN number** UN1993  
**Proper Shipping Name:** Flammable liquid, n.o.s.  
**Transport hazard class(es)** 3  
**Packing group** II  
**Description:** UN1993, Flammable liquid, n.o.s. (1-(Trimethylsilyl)imidazole), 3, II

### IMDG

**UN number** UN1993  
**Proper shipping name** Flammable liquid, n.o.s.  
**Transport hazard class(es)** 3  
**Packing group** II  
**EmS-No** F-E, S-E  
**Special Provisions** 274  
**Marine pollutant** NP1  
**Description** UN1993, Flammable liquid, n.o.s. (1-(Trimethylsilyl)imidazole), 3, II, (5°C c.c.)

### RID

**UN number** UN1993  
**Proper Shipping Name:** Flammable liquid, n.o.s.  
**Transport hazard class(es)** 3  
**Packing group** II  
**Classification code** F1  
**Special Provisions** 274, 601, 640D  
**Description:** UN1993, Flammable liquid, n.o.s. (1-(Trimethylsilyl)imidazole), 3, II

Labels 3

**ADR**

UN number 1993  
Proper Shipping Name: Flammable liquid, n.o.s.  
Transport hazard class(es) 3  
Packing group II  
Classification code F1  
Tunnel restriction code (D/E)  
Special Provisions 274, 601, 640C  
Description: 1993, Flammable liquid, n.o.s. (1-(Trimethylsilyl)imidazole), 3, II, (D/E)  
Labels 3

**ADN**

UN/ID No UN1993  
Proper shipping name Flammable liquid, n.o.s.  
Transport hazard class(es) 3  
Packing Group II  
Classification code F1  
Special Provisions 274, 601, 640C  
Description UN1993, Flammable liquid, n.o.s. (1-(Trimethylsilyl)imidazole), 3, II  
Hazard label(s) 3  
Limited quantity (LQ) 1 L  
ventilation VE01  
Equipment Requirements PP, EX, A

**15. Regulatory information**

**International Inventories**

TSCA Complies

DSL/NDSL Complies  
EINECS/ELINCS Complies  
ENCS This product complies with ENCS:  
IECSC This product complies with China:  
KECL Complies  
PICCS Complies  
AICS All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**



This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### **US State Regulations**

##### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

##### **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

## **16. Other information**

#### **NFPA**

**Health hazards** 2

**Flammability** 3

**Instability** 0

**Physical and chemical properties** -

#### **HMIS**

**Health hazards** 2

**Flammability** 3

**Physical hazards** 0

**Personal protection** X

#### **Key or legend to abbreviations and acronyms used in the safety data sheet**

##### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling

Maximum limit value

#### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

**Revision date**

29-January-2021

**Revision Note**

No information available.

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**