

Safety Data Sheet SIM6594.9
Date of issue: 11/10/2015 Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance
Physical state : Solid
Substance name : MUSCOVITE
Product code : SIM6594.9

 Formula
 : K2O·3Al2O3·6SiO2·2H2O

 Synonyms
 : POTASSIUM MICA

 Chemical family
 : INORGANIC SILICATE

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Chemical intermediate

For research and industrial use only

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

#### **GELEST, INC.**

11 East Steel Road Morrisville, PA 19067

**USA** 

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

info@gelest.com - www.gelest.com

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Not classified

## 2.2. Label elements

#### **GHS-US labeling**

No labeling applicable

#### 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

No data available

#### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substance

Substance type : Mono-constituent
Name : MUSCOVITE
CAS No : 12001-26-2

Name	Product identifier	%	GHS-US classification
Mica	(CAS No) 12001-26-2	97 - 100	Not classified

#### 3.2. Mixture

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel

unwell, seek medical advice.

First-aid measures after skin contact : Wash with plenty of soap and water. Get medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

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#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : No information available.

Chronic symptoms : Chronic overexposure to mica dust may cause fibrotic pneumoconiosis to develop. Where

pneumoconiosis due to overexposure to mica has been demonstrated, signs and symptoms

resemble those of silicosis, but X-ray patterns differ.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Not combustible.
Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : None known. Explosion hazard : None known.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Avoid contact with skin and eyes. Do not breathe dust.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

## 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with

proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

#### 6.4. Reference to other sections

No additional information available

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Provide local

exhaust or general room ventilation to minimize exposure to dust.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible materials : None known.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Mica (12001-26-2)			
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ (respirable fraction)	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	3 mg/m³ (containing <1% Quartz-respirable dust)	

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Mica (12001-26-2)			
USA IDLH	US IDLH (mg/m³)	1500 mg/m³ (containing <1% quartz)	

8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Personal protective equipment : Emergency eye wash fountains and safety showers should be available in the immediate

vicinity of any potential exposure.

Hand protection : Neoprene or nitrile rubber gloves.

Eye protection : Chemical goggles. Contact lenses should not be worn.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended. NIOSH-certified dust and mist (orange cartridge) respirator.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powder.

Molecular mass : 760.62/796.65 g/mol

Color : White.

Odor No data available Odor threshold : No data available Refractive index : 1.55 - 1.61 : No data available pΗ Relative evaporation rate (butyl acetate=1) : No data available Melting point : > 1500 °C decomposes Freezing point : No data available No data available **Boiling point** 

Flash point : none

Auto-ignition temperature

Decomposition temperature

Flammability (solid, gas)

Vapor pressure

Relative vapor density at 20 °C

No data available

No data available

c < 0.01 mm Hg @ 20°C

Relative density : 2.77 - 2.88 ;Typical bulk density, not compacted: 0.25 g/cm3

VOC content : 100 %

Solubility Insoluble in water. Log Pow : No data available : No data available Log Kow No data available Viscosity, kinematic Viscosity, dynamic No data available Explosive properties : No data available : No data available Oxidizing properties **Explosion limits** : No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

None known.

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#### 10.6. Hazardous decomposition products

None known.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

: Not classified Acute toxicity : Not classified Skin corrosion/irritation Serious eye damage/irritation Not classified Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

Aspiration hazard

: Not classified

exposure)

: Not classified

Symptoms/injuries after inhalation

: May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact
Symptoms/injuries after eye contact
Symptoms/injuries after ingestion

: May cause skin irritation.: May cause eye irritation.: No information available.

Chronic symptoms

Chronic overexposure to mica dust may cause fibrotic pneumoconiosis to develop. Where pneumoconiosis due to overexposure to mica has been demonstrated, signs and symptoms

resemble those of silicosis, but X-ray patterns differ.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

## 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Landfill. Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

### **SECTION 14: Transport information**

#### 14.1. UN number

Not regulated for transport.

# 14.2. UN proper shipping name

Not applicable

#### 14.3. Additional information

Other information : No supplementary information available.

#### Transport by sea

No additional information available

#### Air transport

No additional information available

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#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

## MUSCOVITE (12001-26-2)

TSCA Exemption/Exclusion Exempt-Naturally Occurring Substances in accordance with 40 CFR 710.4(b).

#### Mica (12001-26-2)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### Mica (12001-26-2)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

#### 15.3. US State regulations

MUSCOVITE(12001-26-2)				
U.S California - Proposition 65 - Carcinogens List	No			
U.S California - Proposition 65 - Developmental Toxicity	No			
U.S California - Proposition 65 - Reproductive Toxicity - Female	No			
U.S California - Proposition 65 - Reproductive Toxicity - Male	No			

#### Mica (12001-26-2) U.S. - California U.S. - California -U.S. - California -U.S. - California -Non-significant risk level Proposition 65 -Proposition 65 -Proposition 65 · Proposition 65 -(NSRL) Carcinogens List **Developmental Toxicity** Reproductive Toxicity -Reproductive Toxicity -Male Female No No No No

# **SECTION 16: Other information**

Abbreviations and acronyms

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

#### **HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard : 0 Minimal Hazard **Physical** 

Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

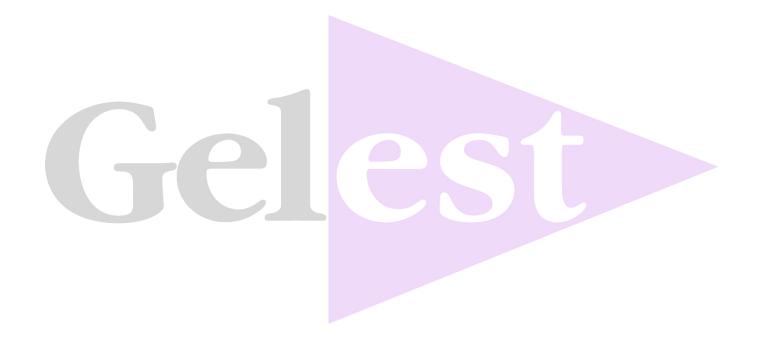
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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