

MED4-4116

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision date: 12/04/2023 Date of Issue: 06/09/2014

SECTION 1: Identification

1.1. Product Identifier

Product Form Mixture
Product Name MED4-4116
Synonyms Silicone Elastomer

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of the Substance/Mixture For professional use only.

1.3. Details of the Supplier of the Safety Data Sheet

NuSil Technology LLC
1050 Cindy Lane
Carpinteria, California 93013
USA
(805) 684-8780

productstewardship@avantorsciencesgcc.com

www.nusil.com

1.4. Emergency Telephone Number

Emergency Number 800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International and Maritime)

SECTION 2: Hazards Identification

2.1. Classification of the Substance or Mixture

GHS-US Classification

Skin sensitization, Category 1 H317
Reproductive toxicity Category 1B H360
Hazardous to the aquatic environment - Chronic Hazard Category 3 H412

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS07

GHS08

Signal Word (GHS-US)

Danger

Hazard Statements (GHS-US)

H317 - May cause an allergic skin reaction
H360 - May damage fertility or the unborn child
H412 - Harmful to aquatic life with long lasting effects

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Precautionary Statements (GHS-US)

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing vapors, mist, or spray.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.
P302+P352 - If on skin: Wash with plenty of water.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P321 - Specific treatment (see section 4 on this SDS).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Other Hazards Not Contributing to the Classification

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

30 - 60% of the mixture consists of ingredients of unknown acute toxicity.

SECTION 3: Composition/Information On Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product Identifier | %* | GHS-US Classification |
|------------------------------|--------------------|--------|--|
| 2,4-Dichlorobenzoyl peroxide | (CAS-No.) 133-14-2 | < 1 | Org. Perox. D, H242 Skin Sens. 1, H317 Repr. 1B, H360 |
| Octamethylcyclotetrasiloxane | (CAS-No.) 556-67-2 | < 0.25 | Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 1, H410 |

Full text of H-phrases: see section 16

*The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

SECTION 4: First Aid Measures

4.1. Description of First-aid Measures

First-aid Measures General

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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| | |
|---------------------------------------|---|
| First-aid Measures After Inhalation | When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists. |
| First-aid Measures After Skin Contact | Remove contaminated clothing. Wash affected area with soap and water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists. |
| First-aid Measures After Eye Contact | Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention. |
| First-aid Measures After Ingestion | Rinse mouth. Do NOT induce vomiting. Obtain medical attention. |

4.2. Most Important Symptoms and Effects Both Acute and Delayed

| | |
|--------------------------------------|--|
| Symptoms/Injuries | Skin sensitization. May damage fertility or the unborn child. |
| Symptoms/Injuries After Inhalation | Prolonged exposure may cause irritation. |
| Symptoms/Injuries After Skin Contact | May cause an allergic skin reaction. |
| Symptoms/Injuries After Eye Contact | May cause slight irritation to eyes. |
| Symptoms/Injuries After Ingestion | Ingestion may cause adverse effects. |
| Chronic Symptoms | May damage fertility or the unborn child. May cause an allergic skin reaction. |

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

| | |
|--------------------------------|---|
| Suitable Extinguishing Media | : Water spray, fog, carbon dioxide (CO ₂), alcohol-resistant foam, or dry chemical. |
| Unsuitable Extinguishing Media | : Do not use a heavy water stream. Use of heavy stream of water may spread fire. |

5.2. Special Hazards Arising From the Substance or Mixture

| | |
|------------------|---|
| Fire Hazard | Not considered flammable but may burn at high temperatures. |
| Explosion Hazard | Product is not explosive. |
| Reactivity | Hazardous reactions will not occur under normal conditions. |

5.3. Advice for Firefighters

| | |
|--------------------------------|---|
| Precautionary Measures Fire | Exercise caution when fighting any chemical fire. |
| Firefighting Instructions | Use water spray or fog for cooling exposed containers. |
| Protection During Firefighting | Do not enter fire area without proper protective equipment, including respiratory protection. |
| Hazardous Combustion Products | Carbon oxides (CO, CO ₂). Silicon oxides. Formaldehyde. |
| Other Information | Do not allow run-off from fire fighting to enter drains or water courses. |

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment And Emergency Procedures

General Measures Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

6.1.1. For Non-Emergency Personnel

Protective Equipment Use appropriate personal protective equipment (PPE).

Emergency Procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective Equipment Equip cleanup crew with proper protection.

Emergency Procedures Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and Materials 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 Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling And Storage

7.1. Precautions for Safe Handling

Additional Hazards When Processed Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapors.

Precautions for Safe Handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe vapors, mist, spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures Comply with applicable regulations.

Storage Conditions Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

Incompatible Materials Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(S)

For professional use only.

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SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), or OSHA (PEL).

| | | |
|---|----------|--------|
| Octamethylcyclotetrasiloxane (556-67-2) | | |
| USA AIHA | WEEL TWA | 10 ppm |

8.2. Exposure Controls

Appropriate Engineering Controls

Ensure adequate ventilation, especially in confined areas. Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment

Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection. Protective goggles or glasses.



Materials For Protective Clothing

Chemically resistant materials and fabrics.

Hand Protection

Wear protective gloves.

Eye And Face Protection

Chemical safety goggles or safety glasses with side shields.

Skin And Body Protection

Wear suitable protective clothing.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information

When using, do not eat, drink or smoke.

SECTION 9: Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

| | |
|--------------------------------|-------------------|
| Physical State | Solid |
| Appearance | Translucent Gray |
| Odor | Odorless |
| Odor Threshold | No data available |
| pH | No data available |
| Evaporation Rate | No data available |
| Melting Point | No data available |
| Freezing Point | No data available |
| Boiling Point | No data available |
| Flash Point | > 135 °C (275 °F) |
| Auto-ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Flammability (solid, gas) | Not applicable |
| Vapor Pressure | No data available |
| Relative Vapor Density at 20°C | No data available |
| Relative Density | No data available |

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| | |
|---------------------------------------|-------------------|
| Specific Gravity | > 1 |
| Solubility | No data available |
| Partition Coefficient n-Octanol/Water | No data available |
| Viscosity | No data available |

9.2. Other Information

| | |
|-------------|-------|
| VOC Content | < 1 % |
|-------------|-------|

SECTION 10: Stability and Reactivity

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Extremely high or low temperatures and incompatible materials.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products

Carbon oxides (CO, CO₂). Silicon oxides. Will decompose above 150 °C (>300° F) releasing formaldehyde vapors. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation. May produce explosive hydrogen gas on contact with incompatibilities or upon thermal decomposition.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

| | |
|-----------------------------|----------------|
| Acute Toxicity (Oral) | Not classified |
| Acute Toxicity (Dermal) | Not classified |
| Acute Toxicity (Inhalation) | Not classified |

| | |
|---|--------------|
| 2,4-Dichlorobenzoyl peroxide (133-14-2) | |
| LD50 Oral Rat | > 2500 mg/kg |

| | |
|---|-----------------------------|
| Octamethylcyclotetrasiloxane (556-67-2) | |
| LD50 Oral Rat | > 4800 mg/kg (No mortality) |
| LD50 Dermal Rat | > 2375 mg/kg |
| LD50 Dermal Rabbit | > 2.5 ml/kg (No mortality) |
| LC50 Inhalation Rat | 36 mg/l/4h |

| | |
|--|---|
| Skin Corrosion/Irritation | Not classified |
| Serious Eye Damage/Irritation | Not classified |
| Respiratory or Skin Sensitization | May cause an allergic skin reaction. |
| Germ Cell Mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive Toxicity | May damage fertility or the unborn child. |
| Specific Target Organ Toxicity (Single Exposure) | Not classified |

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| | |
|--|--|
| Specific Target Organ Toxicity (Repeated Exposure) | Not classified |
| Aspiration Hazard | Not classified |
| Symptoms/Injuries After Inhalation | Prolonged exposure may cause irritation. |
| Symptoms/Injuries After Skin Contact | May cause an allergic skin reaction. |
| Symptoms/Injuries After Eye Contact | May cause slight irritation to eyes. |
| Symptoms/Injuries After Ingestion | Ingestion may cause adverse effects. |
| Chronic Symptoms | May damage fertility or the unborn child. May cause an allergic skin reaction. |

SECTION 12: Ecological Information

12.1. Toxicity

Ecology - General Harmful to aquatic life with long lasting effects.

| | |
|---|--|
| 2,4-Dichlorobenzoyl peroxide (133-14-2) | |
| LC50 Fish 1 | > 1000 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static]) |
| NOEC Chronic Fish | 1000 mg/l (Exposure: 96h Species: Poecilia reticulata [semi-static]) |
| Octamethylcyclotetrasiloxane (556-67-2) | |
| LC50 Fish 1 | > 22 µg/l |
| NOEC Chronic Fish | 0.0044 mg/l |

12.2. Persistence and Degradability

| | |
|-------------------------------|---|
| MED4-4116 | |
| Persistence and Degradability | May cause long-term adverse effects in the environment. |

12.3. Bioaccumulative Potential

| | |
|---|-----------------------|
| MED4-4116 | |
| Bioaccumulative Potential | Not established. |
| 2,4-Dichlorobenzoyl peroxide (133-14-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 6.01 KowWin |
| Octamethylcyclotetrasiloxane (556-67-2) | |
| BCF Fish 1 | (12400 dimensionless) |
| Partition coefficient n-octanol/water (Log Pow) | 6.488 (at 25.1 °C) |

12.4. Mobility In Soil

No additional information available

12.5. Other Adverse Effects

Other Information Avoid release to the environment.

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SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

| | |
|--------------------------------|--|
| Waste Disposal Recommendations | Dispose of contents/container in accordance with local, regional, national, and international regulations. |
| Additional Information | Container may remain hazardous when empty. Continue to observe all precautions. |
| Ecology - Waste Materials | Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways. |

SECTION 14: Transport Information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Not regulated for transport

14.2. In Accordance with IMDG

Not regulated for transport

14.3. In Accordance with IATA

Not regulated for transport

SECTION 15: Regulatory Information

15.1. US Federal Regulations

All components in this mixture are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, have been exempted, are not listed, not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

| | |
|-------------------------------------|--|
| MED4-4116 | |
| SARA Section 311/312 Hazard Classes | Health hazard - Respiratory or skin sensitization Health hazard - Reproductive toxicity |

15.2. US State Regulations

| |
|---|
| Octamethylcyclotetrasiloxane (556-67-2) |
| U.S. - Texas - Effects Screening Levels - Long Term |
| U.S. - Texas - Effects Screening Levels - Short Term |
| U.S. - Maine - Chemicals of Concern |
| U.S. - Oregon - Priority Persistent Pollutant - Tier I - Persistent Pollutants |
| U.S. - Minnesota - Chemicals of High Concern |
| U.S. - Minnesota - Chemicals of High Concern - Persistent Bioaccumulative Toxins |
| U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups |

SECTION 16: Other Information, Including Date of Preparation or Last Revision

Date of Preparation or Latest Revision 12/04/2023

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Other Information

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

| | |
|------|--|
| H226 | Flammable liquid and vapor |
| H242 | Heating may cause a fire. |
| H317 | May cause an allergic skin reaction |
| H360 | May damage fertility or the unborn child |
| H361 | Suspected of damaging fertility or the unborn child |
| H410 | Very toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

NFPA Health Hazard

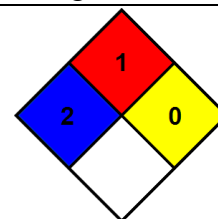
2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA Fire Hazard

1 - Materials that must be preheated before ignition can occur.

NFPA Reactivity Hazard

0 - Material that in themselves are normally stable, even under fire conditions.



HMIS III Rating Health

2 Moderate Hazard

* Chronic - Chronic (long-term) health effects may result from repeated overexposure

Flammability Physical

1 Slight Hazard

0 Minimal Hazard

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