



Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 02/09/2023 Date of Issue: 11/04/2013

Version 5.0

SECTION 1: Identification

1.1. Product Identifier

Product Form Mixture
Product Name MED-4102-2

Synonyms Color Masterbatch

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

Number and Maritime)

SECTION 2: Hazards Identification

2.1. Classification of the Substance or Mixture

GHS-US Classification

Reproductive toxicity Category 2 H361 Hazardous to the aquatic environment - Chronic Hazard Category 2 H411

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)





GHS09

GHS08 Warning

Signal Word (GHS-US)

Hazard Statements (GHS-US)

H361 - Suspected of damaging fertility or the unborn child

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements (GHS-

US)

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been

read and understood.

P273 - Avoid release to the environment.

P280 - Wear eye protection, protective clothing, protective

aloves.

P308+P313 - If exposed or concerned: Get medical

advice/attention. P391 - Collect spillage. P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local,

regional, national, and international regulations.

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2.3. Other Hazards

Other Hazards Not Contributing Exposure may aggravate pre-existing eye, skin, or respiratory to the Classification conditions.

Unknown Acute Toxicity (GHS-US) 2.4.

0% of the mixture consists of ingredients of unknown acute toxicity.

SECTION 3: Composition/Information On Ingredients

3.1. Substances

Not applicable

Mixtures

Name	Product Identifier	%	GHS-US Classification
Iron oxides	(CAS-No.) 1332-37-2	< 5	Not classified
Octamethylcyclotetrasiloxane	(CAS-No.) 556-67-2	< 1	Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

SECTION 4: First Aid Measures

Description of First-aid Measures 4.1.

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First-aid Measures General	Never alve (anythina hy i	mouth to an	unconscious person.	It valu
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feel unwell, seek medical advice (show the label where

possible).

First-aid Measures After When symptoms occur: go into open air and ventilate

Inhalation suspected area. Obtain medical attention if breathing difficulty

persists.

First-aid Measures After Skin

Remove contaminated clothing. Wash affected area with soap Contact and water for at least 5 minutes. If exposed or concerned: Get

medical advice/attention.

First-aid Measures After Eye

Contact

Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists. Rinse mouth. Do NOT induce vomiting. Obtain medical

First-aid Measures After Ingestion attention.

Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries Suspected of damaging fertility or the unborn child.

Symptoms/Injuries After Prolonged exposure may cause irritation.

Inhalation

Symptoms/Injuries After Skin

Contact

Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye

Contact

May cause slight irritation to eyes.

Symptoms/Injuries After

Ingestion may cause adverse effects.

Ingestion

Suspected of damaging fertility or the unborn child. Chronic Symptoms

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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 (CO₂), 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.

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 Carbon oxides (CO, CO₂). Silicon oxides. Nitrogen oxides.

Products Chlorine compounds. 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.

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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 Will decompose above 150 °C (> 300 °F) releasing

Processed 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.

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).

Iron oxides (1332-37-2)		
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	10 mg/m³ Iron Oxide fume

8.2. Exposure Controls

Appropriate Engineering Ensure adequate ventilation, especially in confined areas.

Controls 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.







Chemically resistant materials and fabrics.



Materials For Protective

Clothing

Hand Protection Wear protective gloves.

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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 Liquid
Appearance Black
Odor Odorless

No data available Odor Threshold No data available На **Evaporation Rate** No data available Melting Point No data available Freezing Point No data available Boilina 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 > 1 (water = 1)

Specific Gravity > 1

Solubility
Partition Coefficient n-Octanol/Water
Viscosity
No data available
No data available
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

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

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10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Carbon oxides (CO, CO₂). Silicon oxides. Nitrogen oxides. Chlorine compounds. 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.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity (Oral)

Acute Toxicity (Dermal)

Acute Toxicity (Inhalation)

Not classified

Not classified

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
Serious Eye Damage/Irritation
Respiratory or Skin Sensitization
Germ Cell Mutagenicity
Carcinogenicity
Not classified
Not classified
Not classified
Not classified

Reproductive Toxicity Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity Not classified

(Single Exposure)

Specific Target Organ Toxicity (Repeated Exposure)

Not classified

Aspiration Hazard Not classified

Symptoms/Injuries After Prolonged exposure may cause irritation.

Inhalation

Symptoms/Injuries After Skin Prolonged exposure may cause skin irritation.

Contact

Symptoms/Injuries After Eye May cause slight irritation to eyes.

Contact

Symptoms/Injuries After Ingestion may cause adverse effects.

Ingestion

Chronic Symptoms Suspected of damaging fertility or the unborn child.

SECTION 12: Ecological Information

12.1. Toxicity

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

Octamethylcyclotetrasiloxane (556-67-2)		
LC50 Fish 1	> 22 µg/l	
NOEC Chronic Fish	0.0044 mg/l	

12.2. Persistence and Degradability

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Persistence and Degradability	May cause long-term adverse effects in the environment.
Letainence and Dediagonini	May cause long-term daverse effects in the environment.

12.3. Bioaccumulative Potential

MED-4102-2		
Bioaccumulative Potential	Not established.	
Octamethylcyclotetrasiloxane (556-67-2)		
BCF Fish 1	12400 (dimensionless)	
Partition coefficient n-	6.488 (at 25.1 °C)	
octanol/water (Log Pow)		

12.4. Mobility In Soil

No additional information available

12.5. Other Adverse Effects

Other Information Avoid release to the environment.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Waste Disposal Dispose of contents/container in accordance with local,

Recommendations 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

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.

(Octamethylcyclotetrasiloxane)

Hazard Class 9

Identification Number UN3082

Label Codes 9
Packing Group III

Marine Pollutant Marine pollutant

ERG Number 171

14.2. In Accordance with IMDG

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Octamethylcyclotetrasiloxane)

Hazard Class 9

Identification Number UN3082

Packing Group III
Label Codes 9
EmS-No. (Fire) F-A
EmS-No. (Spillage) S-F



Marine Pollutant Marine pollutant

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14.3. In Accordance with IATA

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Octamethylcyclotetrasiloxane)

Packing Group III

Identification Number UN3082

Hazard Class 9 Label Codes 9 ERG Code (IATA) 9L



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.

	<u> </u>
MED-4102-2	
SARA Section 311/312 Hazard	Health hazard - Reproductive toxicity
Classes	

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

Iron oxides (1332-37-2)

- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

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

Date of Preparation or Latest 02/09/2023

Revision

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
H227	Combustible liquid
H361	Suspected of damaging fertility or the unborn child
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

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NFPA Health Hazard 1 - Materials that, under emergency

conditions, can cause significant irritation.

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.

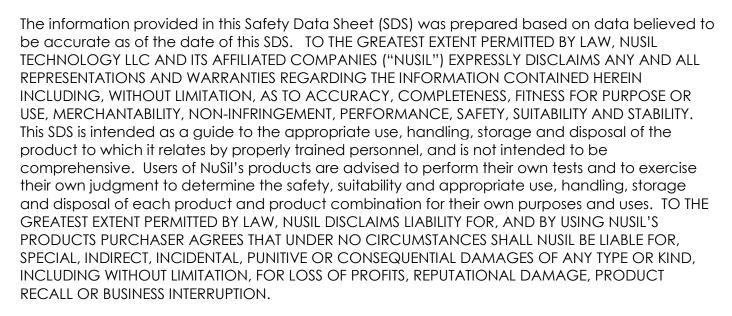
HMIS III Rating

Health 1 Slight Hazard

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

repeated overexposure

Flammability 1 Slight Hazard
Physical 0 Minimal Hazard



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