



Safety Data Sheet According to Federal Register / Vol. 77, No. 58 / Monday

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 Product Name Synonyms Mixture MED-4502-2 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 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

Warning

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) Hazard Statements (GHS-US)

Precautionary Statements (GHS-US) H361 - Suspected of damaging fertility or the unborn child
H411 - Toxic to aquatic life with long lasting effects
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 gloves.

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 conditions.

2.4. Unknown Acute Toxicity (GHS-US)

0% 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
Iron oxides	(CAS-No.) 1332-37-2	< 5	Not classified
Octamethylcyclotetrasiloxane	(CAS-No.) 556-67-2	<]	Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

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).
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	Rinse cautiously with water for at least 5 minutes. Remove
Contact	contact lenses, if present and easy to do. Continue rinsing.
	Obtain medical attention if irritation develops or persists.
First-aid Measures After	Rinse mouth. Do NOT induce vomiting. Obtain medical
Ingestion	attention.
4.2. Most Important Symptoms	s and Effects Both Acute and Delayed
Symptoms/Injuries	Suspected of damaging fertility or the unborn child.
Symptoms/Injuries After Inhalation	Prolonged exposure may cause irritation.
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	Ingestion may cause adverse effects.
Chronic Symptoms	Suspected of damaging fertility or the unborn child.

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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 (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 I	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	Carbon oxides (CO, CO $_2$). 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 Person	
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 Precaution	·
Prevent entry to sewers and public	c waters. Avoid release to the environment.
, , ,	or 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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Reference to Other Sections 6.4.

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

SECTION 7: Handling And Storage

Precautions for Safe Handling 7.1.

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	ge, 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)	

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/m ³	
USA OSHA	OSHA PEL (TWA) (mg/m³)	10 mg/m³ Iron Oxide fume	

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

Materials For Protective Clothing Hand Protection

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



Chemically resistant materials and fabrics.

Wear protective gloves.

Eye And Face Protection Skin And Body Protection Respiratory Protection	Chemical safety goggles or safety glasses with side shields. Wear suitable protective clothing. 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

7.1. Information on pasic ring	sicul unu	chemical hopen
Physical State		Liquid
Appearance		Black
Odor		Odorless
Odor Threshold		No data available
рН		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		> 1 (water = 1)
Specific Gravity		> 1
Solubility		No data available
Partition Coefficient n-Octanol/W	/ater	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

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 Toxicolog	aical Effects
Acute Toxicity (Oral)	Not classified
Acute Toxicity (Dermal)	Not classified
Acute Toxicity (Inhalation)	Not classified
Octamethylcyclotetrasiloxane (5	56-67-2)
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	Not classified
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity	Not classified
(Single Exposure)	
Specific Target Organ Toxicity	Not classified
(Repeated Exposure)	
	Net classified
Aspiration Hazard	Not classified
Symptoms/Injuries After Inhalation	Prolonged exposure may cause irritation.
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.
Octamethylcyclotetrasilox	ane (556-67-2)
LC50 Fish 1	> 22 µg/l
NOEC Chronic Fish	0.0044 mg/l
12.2. Persistence and Degradability	
MFD-4502-2	

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Persistence and Degradability	May cause long-term adverse effects in the environment.	
12.3. Bioaccumulative Potential		
MED-4502-2		
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				
			500517 (NCL3,	LIQUID,	N.O.J.
	(Octamethylcyclote				
Hazard Class	9				
Identification Number	UN3082				
Label Codes	9	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.
	(Octamethylcyclote	trasiloxane)			
Hazard Class	9				
Identification Number	UN3082				
	UNJUUZ				
Packing Group	III				
Packing Group Label Codes		办			
Label Codes	 9				
Label Codes EmS-No. (Fire)	III 9 F-A				
Label Codes	 9				

14.3. In Accordance with IATA

Proper Shipping Name	ENVIRONMENTALLY	HAZARDOUS	substance,	liquid,	N.O.S.
	(Octamethylcyclote	trasiloxane)			
Packing Group					
Identification Number	UN3082				
Hazard Class	9				
Label Codes	9	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.

MED-4502-2	
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 Revision	02/09/2023
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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