

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Revision date: 28/09/2020

Date of issue: 16/08/2013

Version: 3.0

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

### 1.1. Product identifier

Product form Mixture
Product Name MED-4800-1

Synonyms Colour Masterbatch

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec Industrial.

Use of the substance/mixture For professional use only

#### 1.2.2. Uses advised against

No additional information available

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

NuSil Technology Europe 1198 Avenue Maurice Donat Le Natura Bt. 2 06250 Mouains

France

+33 4 92 96 93 31 ehs@nusil.com www.nusil.com

### 1.4. Emergency telephone number

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

number Maritime)

+(44)-870-8200418 +(353)-19014670

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

### 2.1. Classification of the substance or mixture

Classification According to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

### 2.3. Other Hazards

Contains vPvB substances >= 0.1% assessed in accordance with REACH Annex XIII

Other hazards not contributing to Exposure may aggravate pre-existing eye, skin, or respiratory

the classification conditions.

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

### 3.1. Substances

Not applicable

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#### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Titanium dioxide	(CAS No) 13463-67-7	30 - 50	Not classified
Octamethylcyclotetra	(CAS-No.) 556-67-2	< 1	Repr. 2, H361f
siloxane	(EC-No.) 209-136-7		Aquatic Chronic 4, H413
	(EC Index-No.) 014-018-00-1		
Decamethylcyclo	(CAS-No.) 541-02-6	< 1	Not classified
pentasiloxane	(EC-No.) 208-764-9		

### **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 inhalation When symptoms occur: go into open air and ventilate suspected

area. Obtain medical attention if breathing difficulty persists.

Remove contaminated clothing. Drench affected area with water First-aid measures after skin

contact for at least 5 minutes. Obtain medical attention if irritation develops

or persists.

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.

Prolonged exposure may cause irritation.

May cause slight irritation to eyes.

First-aid measures after inaestion Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

Not expected to present a significant hazard under anticipated Symptoms/effects

conditions of normal use.

Symptoms/effects after inhalation

Symptoms/effects after skin

contact

Prolonged exposure may cause skin irritation.

Symptoms/effects after eye

contact

Symptoms/effects after ingestion Ingestion may cause adverse effects.

Chronic symptoms None expected under normal conditions of use.

### 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: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media Water spray, fog, carbon dioxide (CO<sub>2</sub>), 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.

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### **SECTION 6: Accidental release measures**

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

General measures Avoid prolonged contact with eyes, skin and clothing. Avoid

breathing (vapour, mist, spray).

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

**6.1.2.For emergency responders** 

Protective equipment Equip cleanup crew with proper protection.

Emergency procedures Ventilate area. 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.

### 6.2. Environmental precautions

Prevent entry to sewers and 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 Clean up spills immediately and dispose of waste safely. 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

Precautions for safe handling Wash hands and other exposed areas with mild soap and water

before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing

vapours, mist, spray.

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.

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

Titanium dioxide (13463-67-7)				
Austria	MAK (mg/m³)	5 mg/m³ (alveolar dust, respirable fraction)		
Austria	MAK Short time value (mg/m³)	10 mg/m³ (alveolar dust, respirable fraction)		
Belgium	Limit value (mg/m³)	10 mg/m³		
Bulgaria	OEL TWA (mg/m³)	10,0 mg/m³ (respirable dust)		
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	10 mg/m³ (total dust) 4 mg/m³ (respirable dust)		

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Titanium dioxid	de (13463-67-7)	
France	VME (mg/m³)	10 mg/m³
Greece	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction) 5 mg/m³ (respirable fraction)
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
Latvia	OEL TWA (mg/m³)	10 mg/m³
Spain	VLA-ED (mg/m³)	10 mg/m³
Switzerland	VME (mg/m³)	3 mg/m³ (respirable dust)
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ (total inhalable) 4 mg/m³ (respirable)
United Kingdom	WEL STEL (mg/m³)	30 mg/m³ (calculated-total inhalable) 12 mg/m³ (calculated-respirable)
Denmark	Grænseværdie (langvarig) (mg/m³)	6 mg/m³
Estonia	OEL TWA (mg/m³)	5 mg/m³
Ireland	OEL (8 hours ref) (mg/m³)	10 mg/m³ (total inhalable dust) 4 mg/m³ (respirable dust)
Ireland	OEL (15 min ref) (mg/m3)	30 mg/m³ (calculated-total inhalable dust) 12 mg/m³ (calculated-respirable dust)
Lithuania	IPRV (mg/m³)	5 mg/m³
Norway	Grenseverdier (AN) (mg/m³)	5 mg/m³
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	10 mg/m³ (value calculated)
Poland	NDS (mg/m³)	10,0 mg/m³ (<2% free crystalline silica and containing no asbestos-inhalable fraction)
Romania	OEL TWA (mg/m³)	10 mg/m³
Romania	OEL STEL (mg/m³)	15 mg/m³
Sweden	nivågränsvärde (NVG) (mg/m³)	5 mg/m³ (total dust)
Portugal	OEL TWA (mg/m³)	10 mg/m³
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen

### 8.2. Exposure controls

Appropriate engineering controls Suitable eye/body wash equipment should be available in the

vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are

observed.

Personal protective equipment Gloves. Protective clothing. Protective goggles.







Materials for protective clothing Hand protection

Eye protection

Skin and body protection Respiratory protection Chemically resistant materials and fabrics.

Wear protective gloves. Chemical safety goggles.

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

Physical state : Liquid

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Colour : Whirte Odour : Odourless

Odour threshold : No data available : No data available Relative evaporation rate (butylacetate=1) : 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 Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative Density : > 1 (water = 1)

Solubility : No data available
Partition coefficient: n-octanol/water : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : 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.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides. Metal oxides.

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

### 11.1. Information on toxicological effects

Acute toxicity Not classified

Titanium dioxide (13463-67-7)		
LD50 oral rat	> 10000 mg/kg	
Octamethylcyclotetrasiloxane (556-67-2)		
LD50 Oral Rat	1540 mg/kg	
LD50 Dermal Rabbit	794 µl/kg	
LC50 Inhalation Rat	36 g/m³ (Exposure time: 4 h)	

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according to regulation (EG) No. 1707/2000 (REFIGH) Will his attributation regulation (EG) 2010/000			
Decamethylcyclopentasiloxane (541-02-6)			
LD50 Oral Rat	> 5000 mg/kg (Species: Sprague-Dawley)		
LD50 Dermal Rabbit	> 2000 mg/kg (Species: New Zealand White) No deaths reported		
LC50 Inhalation Rat	8,67 mg/l/4h (Species: Fischer)		
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	Not classified Not classified Not classified Not classified Not classified Not classified		
Reproductive toxicity STOT-single exposure STOT-repeated exposure	Not classified : Not classified : Not classified		
Aspiration hazard	Not classified		

effects and symptoms

Potential adverse human health Based on available data, the classification criteria are not met.

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

### 12.1. Toxicity

Ecology - general Not classified.

Titanium dioxide (13463-67-7)		
LC50 fish 1 > 1000 ml/l (Exposure Time: 96h - Species: Pimephales promelas (stati		
Octamethylcyclotetrasiloxane (556-67-2)		
LC50 Fish 1 > 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)		
LC50 Fish 2 > 1000 mg/l (Exposure time: 96 h - Species: Lepomis macro		

### 12.2 Persistence and degradability

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MED-4800-1		
	Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

MED-4800-1	
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

Octamethylcyclotetrasiloxane (556-67-2)	
This substance/mixture meets the PBT criteria of REACH regulation, annex XIII	
This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII	
Decamethylcyclopentasiloxane (541-02-6)	
This substance/mixture meets the PBT criteria of REACH regulation, annex XIII	
This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII	

### 12.6. Other adverse effects

Other information Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product/Packaging disposal	Dispose of contents/container in accordance with local, regional,
recommendations	national, and international regulations.
Ecology - waste materials	Avoid release to the environment.

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### **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.

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated for tr	ansport			
14.2. UN proper sl	hipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport ha	zard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gro	υр			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for	Dangerous for	Dangerous for	Dangerous for	Dangerous for
the environment :	the environment :	the environment :	the environment :	the environment:
No	No	No	No	No
	Marine pollutant :			
	No			

### 14.6. Special precautions for user

No additional information available

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

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

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains a substance on the REACH candidate list in concentration ≥ 0.1% or with a lower specific limit:

Octamethylcyclotetrasiloxane (D4) (EC 209-136-7, CAS 556-67-2)

Decamethylcyclopentasiloxane (D5) (EC 208-764-9, CAS 541-02-6)

Not on the REACH Annex XIV List

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

Indication of changes:

Section	Section Header	Change	Date Changed
1	Identification of the substance/mixture and of the company/undertaking	Modified	28/09/2020
2	Hazards identification	Modified	28/09/2020
3	Composition/information on ingredients	Modified	28/09/2020
11	Toxicological information	Modified	28/09/2020

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12	Ecological information	Modified	28/09/2020
15	Regulatory information	Modified	28/09/2020

Date of Preparation or Latest

28/09/2020

Revision

Data sources Information and data obtained and used in the authoring of this

safety data sheet could come from database subscriptions, official

government regulatory body websites, product/ingredient

manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to

GHS or their subsequent adoption of GHS.

Other information According to Regulation (EC) No. 1907/2006 (REACH) with its

amendment Regulation (EU) 2015/830

### **Abbreviations and Acronyms**

ACGIH – American Conference of Governmental Industrial Hygienists ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - European Agreement Concerning the International Carriage of

Dangerous Goods by Road ATE - Acute Toxicity Estimate

BCF - Bioconcentration Factor

BEI - Biological Exposure Indices (BEI)

BOD – Biochemical Oxygen Demand

CAS No. - Chemical Abstracts Service Number

CLP – Classification, Labeling and Packaging Regulation (EC) No

1272/2008

COD - Chemical Oxygen Demand

EC - European Community

EC50 - Median Effective Concentration EEC – European Economic Community

EINECS – European Inventory of Existing Commercial Chemical

Substances

EmS-No. (Fire) - IMDG Emergency Schedule Fire

EmS-No. (Spillage) - IMDG Emergency Schedule Spillage

EU – European Union

ErC50 - EC50 in Terms of Reduction Growth Rate

GHS – Globally Harmonized System of Classification and Labeling of

Chemicals

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

IBC Code - International Bulk Chemical Code

IMDG - International Maritime Dangerous Goods

IPRV - Ilgalaikio Poveikio Ribinis Dydis

IOELV - Indicative Occupational Exposure Limit Value

LC50 - Median Lethal Concentration

LD50 - Median Lethal Dose

LOAEL - Lowest Observed Adverse Effect Level

LOEC - Lowest-Observed-Effect Concentration

Log Koc - Soil Organic Carbon-water Partitioning Coefficient

Log Kow - Octanol/water Partition Coefficient

Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible

solvents, in this case octanol and water

MAK – Maximum Workplace Concentration/Maximum Permissible

Concentration

MARPOL - International Convention for the Prevention of Pollution

NDS - Najwyzsze Dopuszczalne Stezenie

NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe NOAEL - No-Observed Adverse Effect Level

NOEC - No-Observed Effect Concentration

NRD - Nevirsytinas Ribinis Dydis NTP - National Toxicology Program

OEL - Occupational Exposure Limits
PBT - Persistent, Bioaccumulative and Toxic

PEL - Permissible Exposure Limit pH – Potential Hydrogen

REACH – Registration, Evaluation, Authorisation, and Restriction of

REACH – Registration, Ev Chemicals

RID – Regulations Concerning the International Carriage of Dangerous

Goods by Rail

SADT - Self Accelerating Decomposition Temperature

SDS - Safety Data Sheet

STEL - Short Term Exposure Limit

TA-Luft - Technische Anleitung zur Reinhaltung der Luft

TEL TRK – Technical Guidance Concentrations

ThOD – Theoretical Oxygen Demand

TLM - Median Tolerance Limit TLV - Threshold Limit Value

TPRD - Trumpalaikio Poveikio Ribinis Dydis

TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von

Gefahrstoffen in ortsbeweglichen Behältern

TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine

TRGS 900 - Technische Regel für Gefahrstoffe 900 –

Arbeitsplatzarenzwerte

TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische

Grenzwerte

TSCA - Toxic Substances Control Act TWA - Time Weighted Average

VOC – Volatile Organic Compounds VLA-EC - Valor Límite Ambiental Exposición de Corta Duración

VLA-ED - Valor Límite Ambiental Exposición Diaria

VLE – Valeur Limite D'exposition

VME – Valeur Limite De Moyenne Exposition

vPvB - Very Persistent and Very Bioaccumulative

WEL – Workplace Exposure Limit WGK - Wassergefährdungsklasse

Nusil EU GHS SDS

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