Safety Data Sheet

Revision date: 28/09/2020





Version: 3.0

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

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

1.1. Product identifier

Product form Product Name Synonyms

number

Mixture MED-4800-1 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 Use of the substance/mixture Industrial. For professional use only

Date of issue: 16/08/2013

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 Mougins 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

- 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 the classification in the classifi

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 siloxane	(CAS-No.) 556-67-2 (EC-No.) 209-136-7 (EC Index-No.) 014-018-00-1	< 1	Repr. 2, H361f Aquatic Chronic 4, H413
Decamethylcyclo pentasiloxane	(CAS-No.) 541-02-6 (EC-No.) 208-764-9	< 1	Not classified

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.
First-aid measures after skin contact	Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.
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.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain medical attention.
4.2. Most important symptoms a	nd effects, both acute and delayed
Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	Prolonged exposure may cause irritation.
Symptoms/effects after skin contact	Prolonged exposure may cause skin irritation.
Symptoms/effects after eye contact	May cause slight irritation to eyes.
Symptoms/effects after ingestion	Ingestion may cause adverse effects.
Chronic symptoms	None expected under normal conditions of use.
1.2 Indication of any immodiate	modical attention and special treatment needed

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

Water spray, fog, carbon dioxide (CO ₂), alcohol-resistant foam, or dry chemical.
Do not use a heavy water stream. Use of heavy stream of water may spread fire.
m the substance or mixture
Not considered flammable but may burn at high temperatures.
Product is not explosive.
Hazardous reactions will not occur under normal conditions.
Exercise caution when fighting any chemical fire.
Use water spray or fog for cooling exposed containers.
Do not enter fire area without proper protective equipment, including respiratory protection.

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 personn	el
Protective equipment	Use appropriate personal protective equipment (PPE).
Emergency procedures	Evacuate unnecessary personnel.
6.1.2.For emergency responders	
Protective equipment Emergency procedures	Equip cleanup crew with proper protection. 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 precautionsPrevent entry to sewers and public work6.3. Methods and material for contract of the several precaution of the several precautions	

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	e, 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

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/m ³ (alveolar dust, respirable fraction)	
Belgium	Limit value (mg/m³)	10 mg/m ³	
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)	

8.1. Control parameters

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Titanium dioxide (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/m ³
Latvia	OEL TWA (mg/m³)	10 mg/m ³
Spain	VLA-ED (mg/m³)	10 mg/m ³
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/m ³
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/m ³
Norway	Grenseverdier (AN) (mg/m ³)	5 mg/m ³
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/m ³
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/m ³
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

Materials for protective clothing Hand protection Eye protection Skin and body protection Respiratory protection Gloves. Protective clothing. Protective goggles.



- 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. When using, do not eat, drink or smoke.

Other information

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

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

Colour	: Whirte
Odour	: Odourless
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetat	te=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, CO₂). 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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Γ	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 Reproductive toxicity STOT-single exposure STOT-repeated exposure	Not classified Not classified Not classified Not classified Not classified : Not classified : Not classified	
	Aspiration hazard Potential adverse human health effects and symptoms	Not classified 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 (static)	
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 macrochirus)	
12.2. Persistence and degradab	ility	
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 ass	essment	
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)		

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

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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, re	egional,
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	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not regulated for t	Not regulated for transport			
14.2. UN proper s	hipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : 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 $\geq 0.1\%$ 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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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

Date of Preparation or Latest Revision	28/09/2020
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 MARPOL - International Convention for the Prevention of Pollution ADN - European Agreement Concerning the International Carriage of NDS - Najwyzsze Dopuszczalne Stezenie Dangerous Goods by Inland Waterways NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe ADR - European Agreement Concerning the International Carriage of NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe Dangerous Goods by Road NOAEL - No-Observed Adverse Effect Level ATE - Acute Toxicity Estimate NOEC - No-Observed Effect Concentration BCF - Bioconcentration Factor NRD - Nevirsytinas Ribinis Dydis BEI - Biological Exposure Indices (BEI) NTP – National Toxicology Program BOD - Biochemical Oxygen Demand **OEL - Occupational Exposure Limits** CAS No. - Chemical Abstracts Service Number PBT - Persistent, Bioaccumulative and Toxic CLP - Classification, Labeling and Packaging Regulation (EC) No PEL - Permissible Exposure Limit 1272/2008 pH – Potential Hydrogen COD - Chemical Oxygen Demand REACH – Registration, Evaluation, Authorisation, and Restriction of EC - European Community Chemicals EC50 - Median Effective Concentration RID – Regulations Concerning the International Carriage of Dangerous EEC – European Economic Community Goods by Rail EINECS - European Inventory of Existing Commercial Chemical SADT - Self Accelerating Decomposition Temperature SDS - Safety Data Sheet Substances EmS-No. (Fire) - IMDG Emergency Schedule Fire STEL - Short Term Exposure Limit EmS-No. (Spillage) - IMDG Emergency Schedule Spillage TA-Luft - Technische Anleitung zur Reinhaltung der Luft EU – European Union TEL TRK – Technical Guidance Concentrations ErC50 - EC50 in Terms of Reduction Growth Rate ThOD - Theoretical Oxygen Demand GHS - Globally Harmonized System of Classification and Labeling of TLM - Median Tolerance Limit Chemicals TLV - Threshold Limit Value IARC - International Agency for Research on Cancer TPRD - Trumpalaikio Poveikio Ribinis Dydis TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von IATA - International Air Transport Association Gefahrstoffen in ortsbeweglichen Behältern IBC Code - International Bulk Chemical Code IMDG - International Maritime Dangerous Goods TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine TRGS 900 - Technische Regel für Gefahrstoffe 900 -IPRV - Ilgalaikio Poveikio Ribinis Dydis IOELV - Indicative Occupational Exposure Limit Value Arbeitsplatzarenzwerte LC50 - Median Lethal Concentration TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische LD50 - Median Lethal Dose Grenzwerte LOAEL - Lowest Observed Adverse Effect Level TSCA - Toxic Substances Control Act LOEC - Lowest-Observed-Effect Concentration TWA - Time Weighted Average Log Koc - Soil Organic Carbon-water Partitioning Coefficient VOC - Volatile Organic Compounds Log Kow - Octanol/water Partition Coefficient VLA-EC - Valor Límite Ambiental Exposición de Corta Duración Log Pow - Ratio of the equilibrium concentration (C) of a dissolved VLA-ED - Valor Límite Ambiental Exposición Diaria substance in a two-phase system consisting of two largely immiscible VLE - Valeur Limite D'exposition solvents, in this case octanol and water VME - Valeur Limite De Moyenne Exposition MAK - Maximum Workplace Concentration/Maximum Permissible vPvB - Very Persistent and Very Bioaccumulative Concentration WEL - Workplace Exposure Limit WGK - Wassergefährdungsklasse

Nusil EU GHS SDS

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