## EPM-2411-2





Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 18/12/2020 Date of issue: 12/12/2013

Version: 3.0

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

#### 1.1. Product identifier

Product form Mixture
Product Name EPM-2411-2
Synonyms Silicone Elastomer

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

1.2.1. Relevant identified uses

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 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

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]

EUH-statements EUH210 - Safety data sheet available on request.

2.3. Other Hazards

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]
Quartz*	(CAS No) 14808-60-7 (EC no) 238-878-4	10 - 20	Carc. 1 A, H350 STOT SE 3, H335 STOT RE 1, H372
Siloxanes and Silicones, dimethyl, methyl hydrogen	(CAS No) 68037-59-2	< 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Cyclohexanol, 1-ethynyl-	(CAS No) 78-27-3 (EC no) 201-100-9	< 1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Irrit. 2, H315 Eye Irrit. 2, H319

<sup>\*</sup>Finely divided Quartz dust has caused cancer and lung disease in workers that inhale it over an extended period of time. Since this product is in a liquid form, the Quartz dust is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz dust are not applicable to this product.

Full text of H-statements: see section 16

### **SECTION 4: First aid measures**

#### Description of first aid moderness

4.1. Description of first dia meas	ures
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 and 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	Prolonged exposure may cause skin irritation

May cause slight irritation to eyes.

contact

contact

Symptoms/effects after eye

Symptoms/effects after ingestion

Chronic symptoms

Ingestion may cause adverse effects.

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.

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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.

### **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 extrusion, transfer and compression molding and calendaring. For professional use only.

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## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Quartz (14808-60-7	)	
Austria	MAK (mg/m³)	0,15 mg/m³ (yearly average, valid till 12/31/2013-alveolar dust, respirable fraction
Belgium	Limit value (mg/m³)	0,1 mg/m³ (alveolar dust)
Bulgaria	OEL TWA (mg/m³)	0,07 mg/m³ (respirable fraction)
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	0,1 mg/m³ 0,1 mg/m³ (regulated under Quartz sand- respirable dust)
France	VME (mg/m³)	0,1 mg/m³ (restrictive limit-alveolar fraction)
USA ACGIH	ACGIH TWA (mg/m³)	0,025 mg/m³ (respirable fraction)
Spain	VLA-ED (mg/m³)	0,05 mg/m³ (reclassified IARC group 2A to group 1-respirable fraction)
Switzerland	VME (mg/m³)	0,15 mg/m³ (respirable dust)
Switzerland	OEL chemical category (CH)	Category C1 carcinogen
Netherlands	Grenswaarde TGG 8H (mg/m³)	0,075 mg/m³ (respirable dust)
United Kingdom	WEL TWA (mg/m³)	0,1 mg/m³ (respirable)
United Kingdom	WEL STEL (mg/m³)	0,3 mg/m³ (calculated-respirable)
Czech Republic	Expoziční limity (PEL) (mg/m³)	0,1 mg/m³ (dust)
Denmark	Grænseværdie (langvarig) (mg/m³)	0,3 mg/m³ (total) 0,1 mg/m³ (respirable)
Estonia	OEL TWA (mg/m³)	0,1 mg/m³ (respirable dust)
Finland	HTP-arvo (8h) (mg/m³)	0,05 mg/m³ (respirable)
Hungary	AK-érték	0,15 mg/m³ (respirable)
Ireland	OEL (8 hours ref) (mg/m³)	0,1 mg/m³ (respirable dust)
Ireland	OEL (15 min ref) (mg/m3)	0,3 mg/m³ (calculated-respirable dust)
Lithuania	IPRV (mg/m³)	0,1 mg/m³ (Silicon dioxide variation- respirable fraction)
Norway	Grenseverdier (AN) (mg/m³)	0,3 mg/m³ (Dust containing .alphaQuartz, Cristobalite and/or Tridymite is evaluated b summation formula-total dust) 0,1 mg/m³ (Dust containing .alphaQuartz, Cristobalite and/or Tridymite is evaluated b summation formula-respirable dust)
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	0,3 mg/m³ (Dust containing .alphaQuartz, Cristobalite and/or Tridymite is evaluated b summation formula-total dust) 0,1 mg/m³ (Dust containing .alphaQuartz, Cristobalite and/or Tridymite is evaluated b summation formula-respirable dust)
Norway	OEL chemical category (NO)	Carcinogen
Poland	NDS (mg/m³)	2 mg/m³ (>50% free crystalline silica- inhalable fraction) 0,3 mg/m³ (>50% free crystalline silica- respirable fraction) 4,0 mg/m³ (2% to 50% free crystalline silica- inhalable fraction) 1,0 mg/m³ (2% to 50% free crystalline silica- respirable fraction)
Romania	OEL TWA (mg/m³)	0,1 mg/m³ (respirable fraction, dust)

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Quartz (14808-6	0-7)	
Slovakia	NPHV (priemerná) (mg/m³)	0,1 mg/m³ (in Cristobalite or Tridymite-total aerosol)
Slovenia	OEL TWA (mg/m³)	0,15 mg/m³ (respirable fraction)
Sweden	nivågränsvärde (NVG) (mg/m³)	0,1 mg/m³ (respirable dust)
Sweden	OEL chemical category (SE)	Carcinogen
Portugal	OEL TWA (mg/m³)	0,025 mg/m³ (respirable fraction)
Portugal	OEL chemical category (PT)	A2 - Suspected 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

**Explosive** properties

Oxidising properties

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
Colour : Black
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 : > 135 °C (> 275 °F) Flash point 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

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: No data available

: No data available

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

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. Will decompose above 150 °C (>300° F) releasing formaldehyde vapours. 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 Not classified

Quartz (14808-60-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
Cyclohexanol, 1-ethynyl- (78-27-3	
LD50 oral rat	600 mg/kg
LD50 dermal rabbit	680 mg/kg
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified

Serious eye damage/irritation
Respiratory or skin sensitisation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Not classified
Not classified
Not classified
Not classified
Not classified

STOT-single exposure : Not classified STOT-repeated exposure : Not classified

Aspiration hazard Not classified

Potential adverse human health

effects and symptoms

Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general Not classified.

Cyclohexanol, 1-ethynyl- (78-27-3)		
LC50 fish 1	215 mg/l (Exposure time: 96 h - Species: Leuciscus idus)	
EC50 Daphnia 1	142,54 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
ErC50 (algae)	>= 399,45 mg/l (Exposure time: 72 h)	

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#### 12.2. Persistence and degradability

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Persistence and degradability	Not established.	

#### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Other information Avoid release to the environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations

Ecology - waste materials

Dispose of contents/container in accordance with local, regional,

national, and international regulations. Avoid release to the environment.

## 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 / RID / IMDG / IA	•		
ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated for tr	ansport			
14.2. UN proper s	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	ир			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environment	tal 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

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## **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
VOC content
< 1%</p>

#### 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	Modified	18/12/2020
	Company/Undertaking		

Date of Preparation or Latest 18/12/2020

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

#### Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
EUH210	Safety data sheet available on request.

#### **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

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

NOALL - 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

Chemicals

RID – Regulations Concerning the International Carriage of Dangerous

Goods by Rail

SADT - Self Accelerating Decomposition Temperature

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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 - Ilaalaikio 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

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 –

Arbeitsplatzgrenzwerte

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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