

EPM-2462 Part A

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Revision date: 20/08/2020 Date of issue: 21/10/2014

Version: 4.0

SECTION 1: Identification of the Substance/mixture and of the Company/Undertaking

1.1. Product Identifier

Product form	Mixture
Product Name	EPM-2462 Part A
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 Number : 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]

Skin Sens. 1 H317
Aquatic Acute 1 H400
Aquatic Chronic 3 H412

Full text of hazard classes and H-statements : see section 1.6

2.2. Label Elements

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

Hazard Pictograms (CLP)



GHS07

GHS09

Signal Word (CLP)

Warning

Hazard Statements (CLP)

H317 - May cause an allergic skin reaction.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements (CLP)

P261 - Avoid breathing vapours, mist, spray

P272 - Contaminated work clothing should not be allowed out of the workplace.

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P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves
P302+P352 - IF ON SKIN: Wash with plenty of water
P321 - Specific treatment (see Section 4 on this SDS)
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other Hazards

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

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Nickel	(CAS-No.) 7440-02-0 (EC-No.) 231-111-4 (EC Index-No.) 028-002-00-7	50 - 70	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Silver	(CAS-No.) 7440-22-4 (EC-No.) 231-131-3	10 - 30	Not classified

Full text of H-statements: see section 16

The Nickel component of this product is bound in a silicon matrix. The chronic hazards usually associated with Nickel are not applicable to this product.

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 15 minutes. Obtain medical attention if irritation develops or persists.

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First-Aid Measures After Eye Contact Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

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 Skin sensitisation.

Symptoms/Effects After Inhalation Prolonged exposure may cause irritation.

Inhalation

Symptoms/Effects After Skin Contact May cause an allergic skin reaction.

Contact

Symptoms/Effects After Eye Contact May cause slight irritation to eyes.

Contact

Symptoms/Effects After Ingestion Ingestion may cause adverse effects.

Ingestion

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, dry chemical, foam, carbon dioxide.

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.

Hazardous Decomposition Products in Case of Fire Carbon dioxide. Carbon monoxide. Silicon oxides. Oxides of nickel.

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.

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 vapour, 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.

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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. Collect spillage.

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. 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

Additional Hazards When Processed

Contains substances that are combustible dusts. If dried and allowed to accumulate, may form combustible dust concentrations in air that could ignite and cause an explosion. Take appropriate precautions.

Precautions for Safe Handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe 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 Storage Conditions

Comply with applicable regulations.

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. Organic solvents. Hydrogen. Ammonia. Fluorine. Sulfur compounds.

7.3. Specific End Use(S)

Use for RFI and EMI shielding in electronic and space applications. For professional use only.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

Nickel (7440-02-0)		
Austria	TEL TRK (mg/m ³)	0,5 mg/m ³ (dust, inhalable fraction)
Austria	OEL chemical category (AT)	Group A1 Carcinogen dust, Respiratory sensitizer dust, Skin sensitizer
Belgium	Limit value (mg/m ³)	1 mg/m ³

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Bulgaria	OEL TWA (mg/m ³)	0,05 mg/m ³
Bulgaria	Bulgaria - BLV	45 µg/l Parameter: Nickel - Medium: urine - Sampling time: after several shifts
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,5 mg/m ³
Croatia	OEL chemical category (HR)	Carcinogen Category 1A
Croatia	Croatia - BLV	10 µg/l Parameter: Nickel - Medium: plasma - Sampling time: at the end of the work shift 8 µg/g creatinine Parameter: Nickel - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,5 mg/m ³ (respirable fraction of aerosol)
Czech Republic	OEL chemical category (CZ)	Sensitizer
Czech Republic	Czech Republic - BLV	0,077 µmol/mmol Creatinine Parameter: Nickel - Medium: urine - Sampling time: discretionary 0,04 mg/g creatinine Parameter: Nickel - Medium: urine - Sampling time: discretionary
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,05 mg/m ³ (dust and powder)
Estonia	OEL TWA (mg/m ³)	0,5 mg/m ³
Estonia	OEL chemical category (ET)	Sensitizer
Finland	HTP-arvo (8h) (mg/m ³)	0,01 mg/m ³ (respirable dust)
Finland	Finland - BLV	0,1 µmol/l Parameter: Nickel - Medium: urine - Sampling time: after the shift after a working week or exposure period
France	VME (mg/m ³)	1 mg/m ³ 1 mg/m ³ (metal gratings)
France	OEL chemical category (FR)	Carcinogen category 2
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0,006 mg/m ³
Germany	TRGS 900 chemical category	Skin sensitization
Greece	OEL TWA (mg/m ³)	1 mg/m ³
Hungary	MK-érték	0,1 mg/m ³
Hungary	OEL chemical category (HU)	Carcinogenic substance, Sensitizer
Ireland	OEL (8 hours ref) (mg/m ³)	0,5 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	1,5 mg/m ³ (calculated)
Ireland	OEL chemical category (IE)	Sensitizer
Latvia	OEL TWA (mg/m ³)	0,05 mg/m ³
Lithuania	IPRV (mg/m ³)	0,5 mg/m ³

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Lithuania	OEL chemical category (LT)	Carcinogen, Sensitizer
Norway	Grenseverdier (AN) (mg/m ³)	0,05 mg/m ³
Norway	Grenseverdier (Kortfidsverdi) (mg/m ³)	0,15 mg/m ³ (value calculated)
Norway	OEL chemical category (NO)	Carcinogen, Potential reproductive hazard, Sensitizing substance
Poland	NDS (mg/m ³)	0,25 mg/m ³
Portugal	OEL TWA (mg/m ³)	1,5 mg/m ³ (inhalable fraction)
Portugal	OEL chemical category (PT)	A5 - Not Suspected as a Human Carcinogen
Romania	OEL TWA (mg/m ³)	0,1 mg/m ³
Romania	OEL STEL (mg/m ³)	0,5 mg/m ³
Romania	OEL chemical category (RO)	C2
Romania	Romania - BLV	3 µg/l Parameter: Nickel - Medium: urine - Sampling time: end of shift (SCOEL)
Slovakia	Slovakia - BLV	0,03 mg/l Parameter: Nickel - Medium: blood - Sampling time: end of exposure or work shift
Slovenia	OEL TWA (mg/m ³)	0,5 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL (mg/m ³)	2 mg/m ³ (inhalable fraction)
Slovenia	OEL chemical category (SL)	Category 2
Spain	VLA-ED (mg/m ³)	1 mg/m ³ (manufacturing, commercialization and use restrictions according to REACH)
Spain	OEL chemical category (ES)	Sensitizer
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,5 mg/m ³ (total dust)
Sweden	OEL chemical category (SE)	Sensitizer
Switzerland	MAK (mg/m ³)	0,5 mg/m ³ (inhalable dust)
Switzerland	OEL chemical category (CH)	Category C2 carcinogen, Sensitizer
Switzerland	Switzerland - BLV	45 µg/l Parameter: Nickel - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures)
United Kingdom	WEL TWA (mg/m ³)	0,5 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	1,5 mg/m ³ (calculated)
United Kingdom	WEL chemical category	Potential for cutaneous absorption
Silver (7440-22-4)		
EU	IOELV TWA (mg/m ³)	0,1 mg/m ³
Austria	MAK (mg/m ³)	0,1 mg/m ³ (inhalable fraction)
Austria	MAK Short time value (mg/m ³)	0,1 mg/m ³ (inhalable fraction)
Austria	OEL - Ceilings (mg/m ³)	0,1 mg/m ³ (inhalable fraction)
Belgium	Limit value (mg/m ³)	0,1 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	0,1 mg/m ³

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Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,1 mg/m ³
Cyprus	OEL TWA (mg/m ³)	0,1 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,1 mg/m ³ (respirable fraction of aerosol)
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,01 mg/m ³ (dust and powder)
Estonia	OEL TWA (mg/m ³)	0,1 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	0,1 mg/m ³
France	VME (mg/m ³)	0,1 mg/m ³ (indicative limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0,1 mg/m ³ (inhalable fraction)
Greece	OEL TWA (mg/m ³)	0,1 mg/m ³
Hungary	AK-érték	0,1 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	0,1 mg/m ³ (metallic)
Ireland	OEL (15 min ref) (mg/m ³)	0,3 mg/m ³ (calculated)
Italy	OEL TWA (mg/m ³)	0,1 mg/m ³
Latvia	OEL TWA (mg/m ³)	0,1 mg/m ³
Lithuania	IPRV (mg/m ³)	0,1 mg/m ³
Luxembourg	OEL TWA (mg/m ³)	0,1 mg/m ³
Malta	OEL TWA (mg/m ³)	0,1 mg/m ³ (metallic)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,1 mg/m ³ (metallic)
Norway	Grenseverdier (AN) (mg/m ³)	0,1 mg/m ³ (metal dust and fume)
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	0,3 mg/m ³ (value calculated-metal dust and fume)
Poland	NDS (mg/m ³)	0,05 mg/m ³ (inhalable fraction)
Portugal	OEL TWA (mg/m ³)	0,01 mg/m ³ (indicative limit value)
Romania	OEL TWA (mg/m ³)	0,1 mg/m ³ (metallic)
Slovakia	NPHV (priemerná) (mg/m ³)	0,1 mg/m ³
Slovenia	OEL TWA (mg/m ³)	0,01 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL (mg/m ³)	0,02 mg/m ³ (inhalable fraction)
Spain	VLA-ED (mg/m ³)	0,1 mg/m ³ (indicative limit value)
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,1 mg/m ³ (total dust)
Switzerland	KZGW (mg/m ³)	0,8 mg/m ³ (inhalable dust)
Switzerland	MAK (mg/m ³)	0,1 mg/m ³ (inhalable dust)
United Kingdom	WEL TWA (mg/m ³)	0,1 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	0,3 mg/m ³ (calculated)

8.2. Exposure Controls

Appropriate Engineering Controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

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Personal Protective Equipment

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



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 Hazards

9.1. Information on Basic Physical and Chemical Properties

Physical State	Liquid
Colour	Tan
Odour	Odourless
Odour Threshold	No data available
pH	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
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.

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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. Organic solvents. Hydrogen. Ammonia. Fluorine. Sulfur compounds.

10.6. Hazardous Decomposition Products

Nickel carbonyl gas.

SECTION 11: Toxicological Information

11.1. Information On Toxicological Effects

Acute Toxicity Not classified (Based on available data, the classification criteria are not met)

Nickel (7440-02-0)	
LD50 Oral Rat	> 9000 mg/kg
LC50 Inhalation Rat	> 10,2 mg/l (Exposure time: 1 h)
Silver (7440-22-4)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg

Skin Corrosion/Irritation	Not classified (Based on available data, the classification criteria are not met)
Eye Damage/Irritation	Not classified (Based on available data, the classification criteria are not met)
Respiratory or Skin Sensitization	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	Not classified (The nickel in this product is non-respirable. Carcinogenicity hazards do not apply.)
Reproductive Toxicity	Not classified (Based on available data, the classification criteria are not met)
Specific Target Organ Toxicity (Single Exposure)	Not classified (Based on available data, the classification criteria are not met)
Specific Target Organ Toxicity (Repeated Exposure)	Not classified (The nickel in this product is non-respirable. Specific target organ hazards do not apply.)
Aspiration Hazard	Not classified

SECTION 12: Ecological Information

12.1. Toxicity

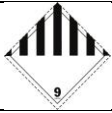

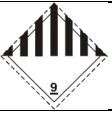
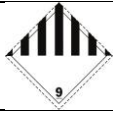
Ecology - General Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Nickel (7440-02-0)	
LC50 Fish 1	100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)

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ADR	IMDG	IATA	ADN	RID
SUBSTANCE, LIQUID, N.O.S. (CONTAINS NICKEL)	SUBSTANCE, LIQUID, N.O.S. (CONTAINS NICKEL)	SUBSTANCE, LIQUID, N.O.S. (CONTAINS NICKEL)	SUBSTANCE, LIQUID, N.O.S. (CONTAINS NICKEL)	SUBSTANCE, LIQUID, N.O.S. (CONTAINS NICKEL)
14.3. Transport Hazard Class(Es)				
9	9	9	9	9
				
14.4. Packing Group				
III	III	III	Not applicable	Not applicable
14.5. Environmental Hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes

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 no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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	20/08/2020
2	Hazards identification	Modified	20/08/2020
3	Composition/information on ingredients	Modified	20/08/2020
14	Transport information	Modified	20/08/2020

Date of Preparation or Latest Revision 20/08/2020

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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

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Full Text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

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 - Najwyższe Dopuszczalne Stezenie
NDSCh - Najwyższe Dopuszczalne Stezenie Chwilowe
NDSP - Najwyższe 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 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
STOT - Specific Target Organ Toxicity
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TWA - Time Weighted Average
VOC – Volatile Organic Compounds
VLA-EC - Valor Limite Ambiental Exposición de Corta Duración
VLA-ED - Valor Limite 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

EPM-2462 Part A

Safety Data Sheet

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

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EPM-2462 Part B

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Revision date: 20/08/2020 Date of issue: 21/10/2014

Version: 4.0

SECTION 1: Identification of the Substance/mixture and of the Company/Undertaking

1.1. Product Identifier

Product form	Mixture
Product Name	EPM-2462 Part B
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 Number : 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

2.2. Label Elements

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

No labelling applicable

2.3. Other Hazards

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

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixture

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This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

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 15 minutes. Obtain medical attention if irritation develops or persists.
First-Aid Measures After Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
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 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.

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, dry chemical, foam, carbon dioxide.
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.
Hazardous Decomposition Products in Case of Fire	Carbon oxides (CO, CO ₂). Silicon oxides.

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.

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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 (vapor, mist, 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.

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. 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 vapors, 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)

Use for RFI and EMI shielding in electrical and space applications. For professional use only.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

No additional information available

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

8.2. Exposure Controls

Appropriate Engineering Controls

Emergency eye wash fountains and safety showers should be available in the immediate 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

Chemically resistant materials and fabrics.

Hand Protection

Wear protective gloves.

Eye Protection

Chemical safety goggles.

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 Hazards

9.1. Information on Basic Physical and Chemical Properties

Physical State	Liquid
Colour	Colourless
Odour	Odorless
Odour Threshold	No data available
pH	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
Vapour Pressure	No data available
Relative Vapour Density At 20 °C	No data available
Relative Density	No data available
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%

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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

None expected under normal conditions of use.

SECTION 11: Toxicological Information

11.1. Information On Toxicological Effects

Acute Toxicity	Not classified (Based on available data, the classification criteria are not met)
Skin Corrosion/Irritation	Not classified (Based on available data, the classification criteria are not met)
Eye Damage/Irritation	Not classified (Based on available data, the classification criteria are not met)
Respiratory or Skin Sensitization	Not classified (Based on available data, the classification criteria are not met)
Germ Cell Mutagenicity	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)
Reproductive Toxicity	Not classified (Based on available data, the classification criteria are not met)
Specific Target Organ Toxicity (Single Exposure)	Not classified (Based on available data, the classification criteria are not met)
Specific Target Organ Toxicity (Repeated Exposure)	Not classified (Based on available data, the classification criteria are not met)
Aspiration Hazard	Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological Information

12.1. Toxicity

Ecology - General Not classified.

12.2. Persistence and Degradability

EPM-2462 Part B	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

EPM-2462 Part B	
Bioaccumulative potential	Not established.

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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 Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Ecology - Waste Materials 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

14.1. UN Number
Not regulated for transport
14.2. UN Proper Shipping Name
Not regulated for transport
14.3. Transport Hazard Class(Es)
Not regulated for transport
14.4. Packing Group
Not regulated for transport
14.5. Environmental Hazards
Not regulated for transport

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 no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National Regulations

No additional information available

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

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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	20/08/2020

Date of Preparation or Latest Revision 20/08/2020

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 - Najwyższe Dopuszczalne Steżenie
NDSP - Najwyższe Dopuszczalne Steżenie Chwilowe
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
NRD - Nevirsylinas 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
SDS - Safety Data Sheet
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