

#### Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 24/09/2018 Date of issue: 07/01/2014

Version: 3.0

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

#### 1.1. Product Identifier

Product form Mixture
Product Name CAT-102

Synonyms Peroxide Catalyst Masterbatch

#### 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 To vulcanize silicone elastomer systems. 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 LLC 1050 Cindy Lane

Carpinteria, California 93013

USA

(805) 684-8780

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)

#### **SECTION 2: Hazards Identification**

# 2.1. Classification of the Substance or Mixture

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

Org. Perox. D H242 Skin Sens. 1 H317 Repr. 1B H360

Full text of hazard classes and H-statements: see section 16

#### 2.2. Label Elements

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

Hazard Pictograms (CLP)







GHS02

GHS07

GHS08

Signal Word (CLP) Danger

Hazardous Ingredients 2,4-Dichlorobenzoyl peroxide Hazard Statements (CLP) H242 - Heating may cause a fire.

H317 - May cause an allergic skin reaction.

H360 - May damage fertility or the unborn child.

Precautionary Statements (CLP) P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been

24/09/2018 EN (English) 1/10

read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P234 - Keep only in original packaging.

P240 - Ground and bond container and receiving equipment.

P261 - Avoid breathing vapours, mist, spray

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

P280 - Wear eye protection, protective clothing, protective gloves

P302+P352 - IF ON SKIN: Wash with plenty of water

P308+P313 - If exposed or concerned: Get medical

advice/attention

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.

P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish

P403+P411 - Store in a well-ventilated place. Store at temperatures not exceeding 30°C/86°F.

P405 - Store locked up.

P410 - Protect from sunlight.

P420 - Store separately.

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

0.2			
Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
2,4-Dichlorobenzoyl peroxide	(CAS-No.) 133-14-2 (EC-No.) 205-094-9	45 - 55	Org. Perox. D, H242 Skin Sens. 1, H317 Repr. 1B, H360

Full text of H-statements: see section 16

#### **SECTION 4: First Aid Measures**

#### 4.1. Description of First-aid Measures

First-Aid Measures General Never give anything by mouth to an unconscious person. If you

feel unwell, seek medical advice (show the label where

possible).

#### Safety Data Sheet

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

First-Aid Measures After When symptoms occur: go into open air and ventilate

Inhalation suspected area. Obtain medical attention if breathing difficulty

persists.

First-Aid Measures After Skin

Contact

Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if

irritation/rash develops or persists. If exposed or concerned: Get

medical advice/attention.

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

4.2.

Rinse mouth. Do NOT induce vomiting. Obtain medical

attention. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Effects Skin sensitisation. May damage fertility. May damage the

unborn child.

Symptoms/Effects After

Inhalation

Prolonged exposure may cause irritation.

Contact

Symptoms/Effects After Skin

May cause slight irritation to eyes.

May cause an allergic skin reaction.

Symptoms/Effects After Eye

Contact

Symptoms/Effects After Ingestion may cause adverse effects.

Ingestion

May damage fertility or the unborn child. Chronic Symptoms

Indication of Any Immediate Medical Attention and Special Treatment Needed 4.3.

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**

**Extinguishing Media** 5.1.

Suitable Extinguishing Media Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam,

or dry chemical.

Do not use a heavy water stream. Use of heavy stream of water Unsuitable Extinguishing Media

may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard Heating may cause a fire.

**Explosion Hazard** Peroxides and their decomposition products can be

> flammable, can ignite when heated, and explode under confinement. Will support combustion under fire conditions.

This material contains an organic peroxide. Heating may cause Reactivity

hazardous decomposition. Hazardous decomposition products from peroxides are flammable and can be explosive under

confinement.

Hazardous Decomposition Products in Case of Fire

Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides. Formaldehyde. PCB (polychlorinated biphenyls). Furan.

**Advice for Firefighters** 

Precautionary Measures Fire

Firefighting Instructions Protection During Firefighting Exercise caution when fighting any chemical fire.

DO NOT fight fire when fire reaches explosives, evacuate area. Do not enter fire area without proper protective equipment,

including respiratory protection.

24/09/2018 3/10 According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Other Information Contains an organic peroxides keep away from incompatible

materials.

#### **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 dust.

Keep away from heat, hot surfaces, sparks, open flames, incompatible materials, combustible materials, and other

ignition sources. No smoking.

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 solid spills with appropriate barriers and prevent

migration and entry into sewers or streams. Use only non-

sparking tools.

Methods For Cleaning Up Clean up spills immediately and dispose of waste safely.

Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Use only non-sparking tools. 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

**Processed** 

Additional Hazards When This material contains an organic peroxide. Heating may cause

hazardous decomposition. Hazardous decomposition products

from peroxides are flammable and can be explosive under

confinement.

Precautions for Safe Handling Obtain special instructions before use. Do not handle until all

safety precautions have been read and understood. Do not breathe dust. Avoid contact with skin, eyes and clothing. Keep

away from heat, ignition sources, combustible materials, incompatible materials, direct sunlight. - No smoking. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures Handle in accordance with good industrial hygiene and safety

procedures.

24/09/2018 EN (English) 4/10

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures Comply with applicable regulations. Proper grounding

procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, and lighting equipment

equipment.

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. Keep in fireproof

place. Store locked up/in a secure area.

Incompatible Materials Acids. Bases. Rust. Iron. Copper. Heavy metals. Reducing

agents. Peroxides.

Storage Temperature < 30 °C (86 °F)

Special Rules On Packaging Keep only in original container.

7.3. Specific End Use(S)

To vulcanize silicone elastomer systems. For professional use only.

#### **SECTION 8: Exposure Controls/Personal Protection**

#### 8.1. Control Parameters

No additional information available

#### 8.2. Exposure Controls

Appropriate Engineering Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation.

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

regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof

equipment.

Personal Protective Equipment Gloves. Protective clothing. Protective goggles. Insufficient

ventilation: wear respiratory protection.









Materials for Protective Clothing Chemically resistant materials and fabrics. Wear fire/flame

resistant/retardant clothing.

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 Solid

Colour White to off-white paste

Odour Slight

Odour Threshold No data available

#### Safety Data Sheet

4 P 1 B 1 P	(50) 11 1007 (000 (	(DE LOUD 311 31 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
According to Regulation	i (EC) No. 1907/2006	(REACH) with its amendment Regulation (EU) 2015/830

рН	No data available
Evaporation Rate	No data available
Melting Point	No data available
Freezing Point	No data available
Boiling Point	No data available
Flash Point	> 135 °C (> 275 °F)
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (Solid, Gas)	No data available
Vapour Pressure	No data available
Relative Vapour Density At 20 °C	No data available
Relative Density	1,25 (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	Heating may cause a fire
Oxidising Properties	No data available
Explosive Limits	No data available

#### 9.2. Other Information

No additional information available

## **SECTION 10: Stability and Reactivity**

#### 10.1. Reactivity

This material contains an organic peroxide. Heating may cause hazardous decomposition. Hazardous decomposition products from peroxides are flammable and can be explosive under confinement.

#### 10.2. Chemical Stability

Heating may cause a fire.

#### 10.3. Possibility Of Hazardous Reactions

Hazardous polymerization may occur.

#### 10.4. Conditions To Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials. Sparks, heat, open flame, combustible materials, organic material and other sources of ignition.

#### 10.5. Incompatible Materials

Acids. Bases. Rust. Iron. Copper. Heavy metals. Reducing agents. Peroxides.

#### 10.6. Hazardous Decomposition Products

Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>). PCB (polychlorinated biphenyls). Furan. 2,4-Dichlorobenzoic acid. 1,3-dichlorbenzene. 2,2',4,4'-Tetrachlorobiphenyl.

# **SECTION 11: Toxicological Information**

#### 11.1. Information On Toxicological Effects

Acute Toxicity Not classified

2,4-Dichlorobenzoyl peroxide (133-14-2)		
LD50 Oral Rat > 2500 mg/kg		
Skin Corrosion/Irritation Eye Damage/Irritation Respiratory or Skin Sensitization	Not classified Not classified May cause an allergic skin reaction.	

#### Safety Data Sheet

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

Germ Cell Mutagenicity

Not classified

Not classified

Reproductive Toxicity

May damage fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure)

Not classified
Specific Target Organ Toxicity (Repeated Exposure)

Not classified

Aspiration Hazard Not classified

## **SECTION 12: Ecological Information**

#### 12.1. Toxicity

Ecology - General Not classified.

2,4-Dichlorobenzoyl peroxide (133-14-2)		
LC50 Fish 1	Fish 1 > 1000 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])	
NOEC Chronic Fish	1000 mg/l (Exposure: 96h Species: Poecilia reticulata [semistatic])	

#### 12.2. Persistence and Degradability

CAT-102	·
Persistence and Degradability	Not established.

#### 12.3. Bioaccumulative Potential

CAT-102		
Bioaccumulative potential	Not established.	
2,4-Dichlorobenzoyl peroxide (133-14-2)		
Log Pow 6,01 KowWin		

#### 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/Packagina Disposal Dispose of contents/container in accordance with local.

Recommendations regional, national, and international regulations.

Additional Information Container may remain hazardous when empty. Continue to

observe all precautions.

Ecology - Waste Materials Avoid release to the environment.

# **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 / AND

#### Safety Data Sheet

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

According to Regulation (EC) No. 17	1	1		
ADR	IMDG	IATA	ADN	RID
14.1. UN Number				
3106	3106	3106	3106	3106
14.2. UN Proper S	Shipping Name			
ORGANIC	ORGANIC	ORGANIC	ORGANIC	ORGANIC
PEROXIDE TYPE D,	PEROXIDE TYPE D,	PEROXIDE TYPE D,	PEROXIDE TYPE D,	PEROXIDE TYPE D,
SOLID (2,4-	SOLID (2,4-	SOLID (2,4-	SOLID (2,4-	SOLID (2,4-
Dichlorobenzoyl	Dichlorobenzoyl	Dichlorobenzoyl	Dichlorobenzoyl	Dichlorobenzoyl
peroxide)	peroxide)	peroxide)	peroxide)	peroxide)
14.3. Transport H	azard Class(Es)			
5.2	5.2	5.2	5.2	5.2
5.2	52	52	5.2	5.2
14.4. Packing Gr	oup			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmen	ntal 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 no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 2,4-Dichlorobenzoyl peroxide (133-14-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical 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
2	Hazards identification	Modified	24/09/2018
3	Composition/information on ingredients	Modified	24/09/2018
4	First aid measures	Modified	24/09/2018

#### Safety Data Sheet

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

11	Toxicological information	Modified	24/09/2018
15	Regulatory information	Modified	24/09/2018

Date of Preparation or Latest Revision

Data Sources

Other Information

24/09/2018

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.

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

its amendment Regulation (EU) 2015/830

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

Org. Perox. D	Organic Peroxides, Type D
Repr. 1B	Reproductive toxicity, Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
H242	Heating may cause a fire.
H317	May cause an allergic skin reaction.
H360	May damage fertility or the unborn child.

#### 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

ATF - 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

IOFLY - 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

MAK - Maximum Workplace Concentration/Maximum Permissible Concentration

MARPOL - International Convention for the Prevention of Pollution

NDS - Najwyzsze Dopuszczalne Stezenie

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

NOFC - No-Observed Effect Concentration NRD - Nevirsytinas Ribinis Dydis

NTP – National Toxicology Program OEL - Occupational Exposure Limits

PBT - Persistent, Bioaccumulative and Toxic

PFL - 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

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 Movenne Exposition

vPvB - Very Persistent and Very Bioaccumulative

WEL – Workplace Exposure Limit WGK - Wassergefährdungsklasse

Nusil EU GHS SDS

The information provided in this Safety Data Sheet (SDS) was prepared based on data believed to be accurate as of the date of this SDS. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL TECHNOLOGY LLC AND ITS AFFILIATED COMPANIES ("NUSIL") EXPRESSLYDISCLAIMS ANY AND ALL REPRESENTATIONS AND WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN INCLUDING, WITHOUT LIMITATION, AS TO ACCURACY, COMPLETENESS, FITNESS FOR PURPOSE OR USE, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY AND STABILITY.

24/09/2018

#### Safety Data Sheet

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

This SDS is intended as a guide to the appropriate use, handling, storage and disposal of the product to which it relates by properly trained personnel, and is not intended to be comprehensive. Users of NuSil's products are advised to perform their own tests and to exercise their own judgment to determine the safety, suitability and appropriate use, handling, storage and disposal of each product and product combination for their own purposes and uses. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL DISCLAIMS LIABILITY FOR, AND BY USING NUSIL'S PRODUCTS PURCHASER AGREES THAT UNDER NO CIRCUMSTANCES SHALL NUSIL BE LIABLE FOR, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR KIND, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFITS, REPUTATIONAL DAMAGE, PRODUCT RECALL OR BUSINESS INTERRUPTION.



# Silicone Sales & Services UK - Ireland - Benelux

© 2019 - Polymer Systems Technology Limited™ Unit 2. Network 4. Cressex Business Park, Lincoln Road, High Wycombe, Bucks. HP12 3RF

tel: +44 (0) 1494 446610

web: https://www.silicone-polymers.com

email: sales@silicone-polymers.co.uk

