

Version: 3.0

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

### 1.1. Product Identifier

Product formMixtureProduct NameCAT-102SynonymsPeroxide 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 <u>ehs@nusil.com</u> <u>www.nusil.com</u>

#### 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)



Signal Word (CLP) Hazardous Ingredients Hazard Statements (CLP)

Precautionary Statements (CLP)

Danger 2,4-Dichlorobenzoyl peroxide H242 - Heating may cause a fire. H317 - May cause an allergic skin reaction. H360 - May damage fertility or the unborn child. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

egulation (EC) No. 1907/2006 (REACH) with its a	mendment Regulation (EU) 2015/830
	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,
Other Hazards	national and/or international regulation.
ITDOT HAZARAS	

#### 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]
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).

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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	Rinse mouth. Do NOT induce vomiting. Obtain medical
Ingestion	attention.
4.2. Most Important Sympto	oms 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.
Symptoms/Effects After Skin Contact	May cause an allergic skin reaction.
Symptoms/Effects After Eye Contact	May cause slight irritation to eyes.
Symptoms/Effects After Ingestion	Ingestion may cause adverse effects.
Chronic Symptoms	May damage fertility or the unborn child.

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.

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Suitable Extinguishing Media	Water spray, fog, carbon dioxide (CO <sub>2</sub> ), alcohol-resistant foam, or dry chemical.
Unsuitable Extinguishing Media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.
5.2. Special Hazards Arising	From the Substance or Mixture
Fire Hazard	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.
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.
Hazardous Decomposition	Carbon oxides (CO, CO2). Silicon oxides. Formaldehyde. PCB
Products in Case of Fire	(polychlorinated biphenyls). Furan.
5.3. Advice for Firefighters	
Precautionary Measures Fire	Exercise caution when fighting any chemical fire.
Firefighting Instructions	DO NOT fight fire when fire reaches explosives, evacuate area.
Protection During Firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.

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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 Per	rsonnel
Protective Equipment	Use appropriate personal protective equipment (PPE).
Emergency Procedures	Evacuate unnecessary personnel.
6.1.2. For Emergency Respon	ders
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 Precau	utions
Prevent entry to sewers and n	ublic waters

Prevent entry to sewers and public waters.

#### Methods and Materials for Containment and Cleaning Up 6.3.

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of waste safely.
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ainer for disposal. Use
ent authorities after a

#### **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	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.

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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.		
7.2 Spacific End Usa(S)			

#### 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	info	rmation	available
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#### 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. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Chemically resistant materials and fabrics. Wear fire/flame Materials for Protective Clothing resistant/retardant clothing. Hand Protection Wear protective gloves. **Eve 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
Colour
Odour
Odour Threshold
24/09/2018

Solid White to off-white paste Slight No data available

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Н	No data available
Evaporation Rate	No data available
Melting Point	No data available
Freezing Point	No data available
0	
Boiling Point	No data available
Flash Point	> 135 ℃ (> 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.

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Germ Cell MutagenicityNot classifiedCarcinogenicityNot classifiedReproductive ToxicityNot classifiedSpecific Target Organ Toxicity (Single Exposure)Not classifiedSpecific Target Organ Toxicity (Repeated Exposure)Not classifiedAspiration HazardNot classified

May damage fertility or the unborn child. Not classified Not classified

# **SECTION 12: Ecological Information**

#### 12.1. Toxicity

Ecology - General	Not classified.	
2,4-Dichlorobenzoyl peroxide (133	3-14-2)	
LC50 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 [semi- static])	
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	3-14-2)
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/Packaging 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

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ADR	IMDG	IATA	ADN	RID
14.1. UN Numbe	r			
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
52	52	52	52	52
14.4. Packing Gr	oup			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmer	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

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

Date of Preparation or Latest Revision<br/>Data Sources24/09/2018<br/>Information and data obtained and used in the authoring<br/>of this safety data sheet could come from database<br/>subscriptions, official government regulatory body<br/>websites, product/ingredient manufacturer or supplier<br/>specific information, and/or resources that include<br/>substance specific data and classifications according to<br/>GHS or their subsequent adoption of GHS.Other InformationAccording to Regulation (EC) No. 1907/2006 (REACH) with<br/>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 MARPOL - International Convention for the Prevention of Pollution ADN - European Agreement Concerning the International Carriage of Dangerous NDS - Najwyzsze Dopuszczalne Stezenie Goods by Inland Waterways NDSCh - Naiwyzsze Dopuszczalne Stezenie Chwilowe ADR - European Agreement Concerning the International Carriage of Dangerous NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe Goods by Road NOAEL - No-Observed Adverse Effect Level ATE - Acute Toxicity Estimate NOFC - No-Observed Effect Concentration BCF - Bioconcentration Factor NRD - Nevirsytinas Ribinis Dydis BEI - Biological Exposure Indices (BEI) BOD – Biochemical Oxygen Demand NTP – National Toxicology Program OEL - Occupational Exposure Limits CAS No. - Chemical Abstracts Service Number PBT - Persistent, Bioaccumulative and Toxic CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008 COD – Chemical Oxygen Demand PEL - Permissible Exposure Limit pH - Potential Hydrogen EC - European Community REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals EC50 - Median Effective Concentration RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail EEC - European Economic Community SADT - Self Accelerating Decomposition Temperature EINECS - European Inventory of Existing Commercial Chemical Substances SDS - Safety Data Sheet 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 TEL TRK - Technical Guidance Concentrations EU – European Union ErC50 - EC50 in Terms of Reduction Growth Rate ThOD – Theoretical Oxygen Demand GHS – Globally Harmonized System of Classification and Labeling of Chemicals IARC - International Agency for Research on Cancer TLM - Median Tolerance Limit TLV - Threshold Limit Value IATA - International Air Transport Association TPRD - Trumpalaikio Poveikio Ribinis Dydis TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in IBC Code - International Bulk Chemical Code IMDG - International Maritime Dangerous Goods ortsbeweglichen Behältern TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte IPRV - Ilgalaikio Poveikio Ribinis Dydis IOFLV – Indicative Occupational Exposure Limit Value LC50 - Median Lethal Concentration TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte LD50 - Median Lethal Dose LOAEL - Lowest Observed Adverse Effect Level TSCA - Toxic Substances Control Act TWA - Time Weighted Average LOEC - Lowest-Observed-Effect Concentration VOC – Volatile Organic Compounds Log Koc - Soil Organic Carbon-water Partitioning Coefficient VLA-EC - Valor Límite Ambiental Exposición de Corta Duración Log Kow - Octanol/water Partition Coefficient VLA-ED - Valor Límite Ambiental Exposición Diaria Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-VLE – Valeur Limite D'exposition VME - Valeur Limite De Movenne Exposition phase system consisting of two largely immiscible solvents, in this case octanol and vPvB - Very Persistent and Very Bioaccumulative vate MAK - Maximum Workplace Concentration/Maximum Permissible Concentration 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.

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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.



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