

### SECTION 1: Identification

#### 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

Use of the Substance/Mixture To vulcanize silicone elastomer systems. For professional use only.

#### 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](mailto:ehs@nusil.com)  
[www.nusil.com](http://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

##### GHS-US Classification

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

##### GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS02

GHS07

GHS08

Signal Word (GHS-US)

Danger

Hazard Statements (GHS-US)

H242 - Heating may cause a fire.

H317 - May cause an allergic skin reaction

H360 - May damage fertility or the unborn child

Precautionary Statements (GHS-US)

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. - No smoking.

P220 - Keep/Store away from combustible material, oxidizable materials, and incompatible materials.

P234 - Keep only in original container.

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P261 - Avoid breathing vapors, mist, or spray.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
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.  
P363 - Wash contaminated clothing before reuse.  
P405 - Store locked up.  
P410 - Protect from sunlight.  
P411+P235 - Store at temperatures not exceeding 30°C/86°F. Keep cool.  
P420 - Store away from other materials.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

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

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: Composition/Information On Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product Identifier	%	GHS-US Classification
2,4-Dichlorobenzoyl peroxide	(CAS-No.) 133-14-2	45 - 55	Org. Perox. D, H242 Skin Sens. 1, H317 Repr. 1B, H360

Full text of H-phrases: 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).

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/rash develops or persists. If exposed or concerned: Get medical advice/attention.

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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/Injuries Skin sensitization. May damage fertility. May damage the unborn child.

Symptoms/Injuries After Inhalation Prolonged exposure may cause irritation.

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

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

Symptoms/Injuries After Ingestion Ingestion may cause adverse effects.

Chronic Symptoms May damage fertility or the unborn child.

### 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: Fire-Fighting Measures

### 5.1. Extinguishing Media

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

### 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.

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**

## 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.
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

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), or OSHA (PEL).

### 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.
Personal Protective Equipment	Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.
Materials For Protective Clothing	Chemically resistant materials and fabrics. Wear fire/flammable resistant/retardant clothing.
Hand Protection	Wear protective gloves.
Eye And Face 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 Properties

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	Solid
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Appearance	White to off-white paste
Color	No data available
Odor	Slight
Odor 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)	No data available
Vapor Pressure	No data available
Relative Vapor Density at 20°C	No data available
Specific Gravity	1.25
Solubility	No data available
Partition Coefficient n-Octanol/Water	No data available
Viscosity	No data available
Explosive Properties	Heating may cause a fire

### 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-dichlorobenzene, 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
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Skin Corrosion/Irritation	Not classified
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Serious Eye Damage/Irritation	Not classified
Respiratory or Skin Sensitization	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified
Carcinogenicity	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
Symptoms/Injuries After Inhalation	Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact	May cause an allergic skin reaction.
Symptoms/Injuries After Eye Contact	May cause slight irritation to eyes.
Symptoms/Injuries After Ingestion	Ingestion may cause adverse effects.
Chronic Symptoms	May damage fertility or the unborn child.

## SECTION 12: Ecological Information

### 12.1. Toxicity

Ecology - General Not classified.

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

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Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

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Bioaccumulative Potential	Not established.
2,4-Dichlorobenzoyl peroxide (133-14-2)	
Log Pow	6.01 KowWin
Carbon dioxide (124-38-9)	
BCF Fish 1	(no bioaccumulation)
Log Pow	0.83

### 12.4. Mobility In Soil

No additional information available

### 12.5. Other Adverse Effects

Other Information Avoid release to the environment.

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Waste Disposal	Dispose of contents/container in accordance with local, regional, national, and international regulations.
Recommendations	
Additional Information	Container may remain hazardous when empty. Continue to observe all precautions.
Ecology - Waste Materials	Avoid release to the environment.

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### SECTION 14: Transport Information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

#### 14.1. In Accordance with DOT

Proper Shipping Name ORGANIC PEROXIDE TYPE D, SOLID (2,4-Dichlorobenzoyl peroxide)  
Hazard Class 5.2  
Identification Number UN3106  
Label Codes 5.2  
Packing Group II  
ERG Number 145



#### 14.2. In Accordance with IMDG

Proper Shipping Name ORGANIC PEROXIDE TYPE D, SOLID (2,4-Dichlorobenzoyl peroxide)  
Hazard Class 5.2  
Division 5.2  
Identification Number UN3106  
Label Codes 5.2  
EmS-No. (Fire) F-J  
EmS-No. (Spillage) S-R  
MFAG Number 145



#### 14.3. In Accordance with IATA

Proper Shipping Name ORGANIC PEROXIDE TYPE D, SOLID (2,4-Dichlorobenzoyl peroxide)  
Identification Number UN3106  
Hazard Class 5.2  
Label Codes 5.2  
Division 5.2  
ERG Code (IATA) 5L



### SECTION 15: Regulatory Information

#### 15.1. US Federal Regulations

All components in this mixture are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, have been exempted, are not listed, not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

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SARA Section 311/312 Hazard Classes	Physical hazard - Organic peroxide Health hazard - Respiratory or skin sensitization Health hazard - Reproductive toxicity

#### 15.2. US State Regulations

Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed

### SECTION 16: Other Information, Including Date of Preparation or Last Revision

Date of Preparation or Latest Revision 09/24/2018



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### Other Information

This Document Has Been Prepared In Accordance With  
The Sds Requirements Of The Osha Hazard  
Communication Standard 29 Cfr 1910.1200

### GHS Full Text Phrases:

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

### NFPA Health Hazard

2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

### NFPA Fire Hazard

2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

### NFPA Reactivity Hazard

2 - Materials that readily undergo violent chemical change at elevated temperatures and pressures.

### HMIS III Rating

#### Health

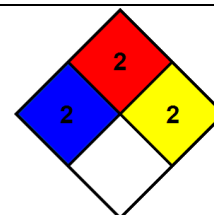
2 Moderate Hazard - Temporary or minor injury may occur  
\* Chronic - Chronic (long-term) health effects may result from repeated overexposure

#### Flammability

2 Moderate Hazard

#### Physical

3 Serious Hazard



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