

Safety Data Sheet

According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)
Date of Issue: 22/04/2024

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. GHS Product Identifier

Product Form: Mixture

Product Name: CAT-102

Synonyms: Peroxide Catalyst

1.2. Recommended Use Of The Chemical And Restrictions On Use

Use Of The Substance/Mixture: For professional use only.

Uses Advised Against: No additional information available.

1.3. Supplier's Details

Customer

NuSil Technology LLC

1050 Cindy Lane

Carpinteria, California 93013

USA

(805) 684-8780

productstewardship@avantorsciencesgcc.com

www.nusil.com

1.4. Emergency Phone Number

Emergency Number

: 800-424-9300 CHEMTREC (in US)

+1 703-527-3887 CHEMTREC (International and Maritime)

001-803-017-9114

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-ID)

Org. Perox. D

H242

Skin Sens. 1

H317

Repr. 1B

H360

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

2.2. GHS Label Elements, Including Precautionary Statements

GHS-ID Labeling

Hazard Pictograms (GHS-ID)

:



GHS02



GHS07



GHS08

Signal Word (GHS-ID)

: Danger

Hazard Statements (GHS-ID)

: H242 - Heating may cause a fire or explosion.

H317 - May cause an allergic skin reaction.

H360 - May damage fertility or the unborn child (Oral).

Precautionary Statements

: P203 - Obtain, read and follow all safety instructions before use.

(GHS-ID)

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 dust.

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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 soap and water.
P318 - IF exposed or concerned, get medical advice.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P317 - If skin irritation or rash occurs: Get medical help.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P410 - Protect from sunlight.
P411 - Store at temperatures not exceeding 30 °C / 86 °F.
P420 - Store separately.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-ID)

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product Identifier	%	GHS UN classification
2,4-Dichlorobenzoyl peroxide	(CAS-No.) 133-14-2	45 - 55	Organic Peroxides, Type D, H242 Skin sensitization, Category 1, H317 Reproductive toxicity Category 1B, H360

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of Necessary 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).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Wash affected area with soap and water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists. If exposed or concerned: Get medical advice/attention.

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

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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4.2. Most Important Symptoms/Effects, Acute and Delayed

General: Skin sensitisation. May damage fertility or the unborn child (oral).

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: Repeated or prolonged skin contact may cause irritation. May cause an allergic skin reaction.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May damage fertility or the unborn child (Oral).

4.3. Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

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 (CO₂), 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. Specific Hazards Arising From the Chemical

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.

5.3. Special Protective Actions for Fire-Fighters

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.

Hazardous Combustion Products: 1,3-dichlorobenzene. 2,2',4,4'-tetrachlorobiphenyl. 2,4-Dichlorobenzoic acid. Carbon oxides (CO, CO₂). Formaldehyde. Furan. Polychlorobiphenyls, PCB. Silicon oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Keep away from heat, hot surfaces, sparks, open flames, incompatible materials, combustible materials, and other ignition sources. No smoking. Do not breathe dust. Avoid contact with skin, eyes and clothing.

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.

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: Use only non-sparking tools. 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. 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. Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapours.

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep away from heat, ignition sources, combustible materials, incompatible materials, direct sunlight. - No smoking. Do not breathe dust. Avoid contact with skin, eyes and clothing.

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

Storage Temperature: < 30 °C (86 °F)

Special Rules on Packaging: Keep only in original container.

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) and Indonesia.

Biological Limits

No additional information available

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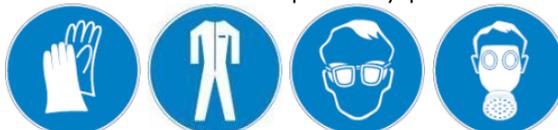
According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

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.

8.3. Individual Protection Measures, Such as Personal Protective Equipment (PPE)

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 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
Appearance	: White to off-white paste
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	: No data available
Vapour Pressure	: No data available
Relative Vapour Density at 20°C	: No data available
Relative Density	: 1,25 (water = 1)
Specific Gravity	: No data available
Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
Explosive Properties	: Heating may cause a fire.

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9.2. Other Information

VOC content : < 1 %

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

10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: 1,3-dichlorobenzene. 2,2',4,4'-Tetrachlorobiphenyl. 2,4-Dichlorobenzoic acid. Carbon oxides (CO, CO₂). Furan. PCB (polychlorinated biphenyls). Will decompose above 150 °C (>300 °F) releasing formaldehyde vapours. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitiser. Formaldehyde can also cause respiratory and eye irritation.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Likely Routes of Exposure: Dermal, Eye Contact, Inhalation, Oral

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

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

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

2,4-Dichlorobenzoyl peroxide (133-14-2)	
LD50 Oral Rat	> 2500 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. (Based on available data, the classification criteria are not met)

Reproductive Toxicity: May damage fertility or the unborn child.

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)

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Aspiration Hazard: Not classified. (Based on available data, the classification criteria are not met)

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Repeated or prolonged skin contact may cause irritation. 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 (Oral).

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Hazardous To The Aquatic Environment, Short-Term (Acute) : Not classified. (Based on available data, the classification criteria are not met)

Hazardous To The Aquatic Environment, Long-Term (Chronic) : Not classified. (Based on available data, the classification criteria are not met)

2,4-Dichlorobenzoyl peroxide (133-14-2)	
LC50 Fish	> 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)	
Partition coefficient n-octanol/water (Log Pow)	6,01 KowWin

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

Ozone : Not classified. (Based on available data, the classification criteria are not met)

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

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

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.

In Accordance with UN RTDG, IMDG, and IATA

UN RTDG	IMDG	IATA
14.1. UN Number		
3106	3106	3106
14.2. UN Proper Shipping Name		
ORGANIC PEROXIDE TYPE D, SOLID (2,4-Dichlorobenzoyl peroxide SOLUTION)	ORGANIC PEROXIDE TYPE D, SOLID (2,4-Dichlorobenzoyl peroxide SOLUTION)	ORGANIC PEROXIDE TYPE D, SOLID (2,4-Dichlorobenzoyl peroxide SOLUTION)
14.3. Transport Hazard Class		
5.2	5.2	5.2
		
14.4. Packing Group		
Not applicable	Not applicable	Not applicable
14.5. Environmental Hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : 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. International Regulatory Lists

All components in this mixture are listed on the following inventories, have been exempted, or are not disclosed due to CBI requirements or disclosure rules according to the relevant regulation: (AICS, CA DSL, KR ECL, EINECS, ELINCS, JP ENCS, CN IECSC, MX INSQ, JP ISHL, KECI, CA NDSL, EU NLP, NZIoC, PICCS, JP PDSCL, JP PRTR, US TSCA, TCSI)

15.2. International Agreements

No additional information available

15.3. Indonesia Regulations

No additional information available

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Creation Date : 22/04/2024
Revision Date : Not applicable

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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

: According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

GHS Full Text Phrases:

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

Indication of Changes: No additional information available

Abbreviations and Acronyms:

ACGIH - American Conference of Governmental Industrial Hygienists
AIHA - American Industrial Hygiene Association
ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
BEI - Biological Exposure Indices (BEI)
BOD - Biochemical Oxygen Demand
CAS No. - Chemical Abstracts Service Number
COD - Chemical Oxygen Demand
EC50 - Median Effective Concentration
EmS-No. (Fire) - IMDG Emergency Schedule Fire
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage
ErC50 - EC50 in Terms of Reduction Growth Rate
ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)
GHS - Globally Harmonized System of Classification and Labeling of Chemicals
HCCL - Hazard Communication Carcinogen List
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC - International Bulk Chemical Code
IMDG - International Maritime Dangerous Goods
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
MARPOL - International Convention for the Prevention of Pollution
MFAG-No - Medical First Aid Guide for Use in Accidents Involving Dangerous Goods
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
NTP - National Toxicology Program
OEL - Occupational Exposure Limits
OSHA - Occupational Safety and Health Administration
pH - Potential Hydrogen
SADT - Self Accelerating Decomposition Temperature
SDS - Safety Data Sheet
SRCL - Specifically Regulated Carcinogen List
STEL - Short Term Exposure Limit
ThOD - Theoretical Oxygen Demand
TLM - Median Tolerance Limit
TLV - Threshold Limit Value
TPQ - Threshold Planning Quantity
TWA - Time Weighted Average
UN - United Nations
UN RTDG - United Nations Recommendations on the Transport of Dangerous Goods
VOC - Volatile Organic Compounds
WEEL - Workplace Environmental Exposure Levels

Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)
AU_WES: Australia WES
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)
EC_RAR: European Commission Renewal Assessment Report
EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports
ECHA_API: European Chemicals Agency API
ECHA_RAC: ECHA Committee for Risk Assessment
EFSA: European Food Safety Authority
EPA: U.S. Environmental Protection Agency
EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)
EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection

FOOD_JOURN: Food Research Journal (1956)
IARC: The International Agency for Research on Cancer
IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles
IUCLID: International Uniform Chemical Information Database
JAPAN_GHS: Japan GHS Basis for Classification Data
JP_J-CHECK: Japan J-Check
KR_NIER: South Korea National Institute of Environmental Research Evaluations
NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme
NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)
NLM_CIP: National Library of Medicine ChemID plus database
NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank
NLM_PUBMED: National Library of Medicine PubMed database

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Agency)

EPA_HP: High Production Volume Chemicals (U.S. Environmental Protection Agency)

EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)

EU_CLH: European Union Harmonised Classification and Labelling Proposal

EU_RAR: European Union Risk Assessment Report

NTP: National Toxicology Program

NZ_CCID: New Zealand Chemical Classification and Information Database

OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)

OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)

WHO: World Health Organization

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