



GAF
Safety Data Sheet
SDS # 4112
SDS Date: April 2022

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Pro Catalyst Powder

1.2. Intended Use of the Product

Hardener.

1.3. Name, Address, and Telephone of the Responsible Party

Company

GAF

1 Campus Drive, Parsippany, NJ 07054

877-GAF-ROOF

1.4. Emergency Telephone Number

Emergency Number : 800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Organic peroxides : Type D

Eye irritation : Category 2B

Skin sensitization : Category 1

Reproductive toxicity : Category 1B

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

2.2. Label Elements

Hazard Pictograms:



Signal Word: Danger

Hazard Statements:

- | | |
|-------|---|
| H242 | Heating may cause a fire. |
| H317 | May cause an allergic skin reaction. |
| H360 | May damage fertility or the unborn child. |
| H320 | Causes eye irritation. |
| H360D | May damage the unborn child. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary Statements :

Prevention:

- | | |
|------|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat/sparks/open flames/hot surfaces. No smoking. |
| P220 | Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible materials. |
| P234 | Keep only in original container. |

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Storage:

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.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plan
P260 - Do not breathe vapors, mist, or spray.

2.3. Other Hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixture**

Name	Product Identifier	Concentration (%)
Dicyclohexyl phthalate	(CAS-No.) 81-67-7	50-55
Dibenzoyl peroxide	(CAS-No.) 94-36-0	45-50

SECTION 4: FIRST AID MEASURES**4.1. Description of 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). Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended. Call a physician immediately.

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

Skin Contact: Remove contaminated clothing. Drench the affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before re-use.

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.

Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: May cause an allergic skin reaction. Causes eye irritation. May damage 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. Treat symptomatically and supportively.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media: Do not use a heavy water stream.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: The product burns violently. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. The product will float on water and can be reignited on surface water. Cool closed containers exposed to fire with water spray.

Explosion Hazard: May form flammable or explosive vapor-air mixture.

Reactivity: Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite.

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. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Remove undamaged containers from fire area if it is safe to do so.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Under fire conditions, may produce fumes, smoke, oxides of carbon and hydrocarbons.

Other Information: Do not allow run-off from firefighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Reference to Other Sections

Refer to Section 9 for flammability properties.

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. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges. Do not breathe vapor, mist or spray. Do not handle until all safety precautions have been read and understood.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

6.1.2. For Emergency Personnel

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. Eliminate ignition sources.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

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. As an immediate precautionary measure, isolate spill or leak area in all directions.

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. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools. Contact with incompatible substances can cause decomposition at or below SADT.

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. Dust explosion possible if in powder or granular form, mixed with air.

Precautions for Safe Handling: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from combustible material. Take precautionary measures against static discharges. Never return any product to the container from which it was originally removed. Provide sufficient air exchange and/or exhaust in work rooms. Avoid confinement. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in the application area. Wash thoroughly after handling.

7.2. Conditions For Safe Storage, Including Any Incompatibilities

Technical Measures: Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container.

Storage Conditions: Store in a dry, cool place - less than 30 deg. C./86 deg. F. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place. Store locked up.

Incompatible Materials: Keep away from strong acids, bases, heavy metal salts and other reducing substances.

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), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Dibenzoyl peroxide (94-36-9)		
USA ACGIH	ACGIH TWA (mg/m ³)	5
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	5

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. 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 : Free Flowing Powder

Appearance : White

Odor : Aromatic

Odor Threshold : Not available

pH : Not available

Evaporation Rate : Not available

Melting Point : Not available. Decomposes below the melting point.

Freezing Point : Not available

Boiling Point : Not available

Flash Point : Not available

Auto-ignition Temperature : Not available
Decomposition Temperature : Not available
Flammability (solid, gas) : Not applicable
Lower Flammable Limit : Not available
Upper Flammable Limit : Not available
Relative Density : Not available
Density : Not available
VOC: Not applicable.
Solubility : Insoluble in water

SADT (Self Accelerating Decomposition Temperature): 60 °C/140 °F

(Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.)

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Stable under recommended storage conditions.

10.2. Chemical Stability: Decomposes upon heating and elevated temperatures. SADT (Self accelerating decomposition temperature) is 60°C, material will undergo self accelerating decomposition above this temperature. Thermal decomposition can generate fire or explosion.

10.3. Possibility of Hazardous Reactions: Dust may form explosive mixture in air.

10.4. Conditions to Avoid: Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.

10.5. Incompatible Materials: Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents

10.6. Hazardous Decomposition Products: Irritant, caustic, flammable, noxious/toxic gasses and vapours can develop in the case of fire and decomposition

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects-Product

Acute Toxicity (Oral): Oral: Not classified based on available information.

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

Dicyclohexyl phthalate:	
Acute oral toxicity	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral toxicity
Acute dermal toxicity	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
Dibenzoyl peroxide:	
Acute oral toxicity	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity.
Acute dermal toxicity	LC50 (Rat): > 24.3 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity

Skin Corrosion/Irritation: May cause skin irritation.

Eye Damage/Irritation: Product dust may be irritating to eyes.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified based on available information. .

Carcinogenicity: Not classified based on available information.

Specific Target Organ Toxicity (Repeated Exposure): Not classified based on available information.

Reproductive Toxicity: May damage the unborn child.

Specific Target Organ Toxicity (Single Exposure): Not classified based on available information.

Aspiration Hazard: Not classified

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

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

Dicyclohexyl phthalate:	
Toxicity to fish	LC50 (Oryzias latipes (Orange-red killifish)): > 2 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility.
Toxicity to daphnia and other aquatic invertebrates	NOEC (Daphnia magna (Water flea)): > 2 mg/l Exposure time: 48 h Remarks: No toxicity at the limit of solubility.
Toxicity to algae	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC (Daphnia magna (Water flea)): 0.181 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
Toxicity to microorganisms	NOEC: > 100 mg/l Exposure time: 3 h Test Type: Respiration inhibition
Ecotoxicology Assessment	
Chronic aquatic toxicity	Harmful to aquatic life with long lasting effects.
Dibenzoyl peroxide:	
Toxicity to fish	EC50 (Oncorhynchus mykiss (rainbow trout)): 0.06 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 0.11 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	EC50 (Pseudokirchneriella subcapitata (green algae)): 0.06 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	EC10 (Daphnia magna (Water flea)): 0.001 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211
Toxicity to microorganisms	EC50 (Bacteria): 35 mg/l
Ecotoxicology Assessment	
Acute aquatic toxicity	Very toxic to aquatic life.
Chronic aquatic toxicity	Very toxic to aquatic life with long lasting effects.

12.2. Persistence and Degradability

Dibenzoyl peroxide and Dicyclohexyl phthalate:	
Persistence and Degradability	Readily biodegradable

12.4. Mobility in Soil

Not available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

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 (DIBENZOYL PEROXIDE)

Hazard Class 5.2

Identification Number : UN3106

Label Codes : 5.2

Packing Group Not assigned

14.2. In Accordance with IMDG

Proper Shipping Name : ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)

Hazard Class 5.2

Identification Number : UN3106

Label Codes : 5.2

Packing Group Not assigned

EmS-No. (Fire) : F-J, S-R

Marine Pollutant : Yes

14.3. In Accordance with IATA

Proper Shipping Name : ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)

Identification Number : 3 (6.1)

Hazard Class : UN1992 f

Labels : Organic Peroxides, Keep Away From Heat

Packing Group Not assigned

Packing instruction (cargo aircraft) : 570

Packing instruction (passenger aircraft) : 570

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15: REGULATORY INFORMATION**15.1. US Federal Regulations**

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ. S

ARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Organic peroxides
Serious eye damage or eye irritation
Respiratory or skin sensitization
Reproductive toxicity

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Dibenzoyl peroxide 94-36-0

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

DSL (CA) : All components of this product are on the Canadian
DSL AICS (AU) : On the inventory, or in compliance with the inventory
ENCS (JP) : On the inventory, or in compliance with the inventory
ISHL (JP) : On the inventory, or in compliance with the inventory
KECI (KR) : On the inventory, or in compliance with the inventory
PICCS (PH) : On the inventory, or in compliance with the inventory
IECSC (CN) : On the inventory, or in compliance with the inventory
TCSI (TW) : On the inventory, or in compliance with the inventory
TSCA (US) : On TSCA Inventory

TSCA list

No substances are subject to a Significant New Use Rule.
No substances are subject to TSCA 12(b) export notification requirements.

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

ADDITIONAL COMMENTS: None

DATE OF PREVIOUS SDS: 10/26/2021

CHANGES SINCE PREVIOUS SDS: Conversion to GAF SDS.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.