

SAFETY DATA SHEET
DERBIFLASH RS CATALYST



SECTION 1 IDENTIFICATION

Product Name Derbiflash RS Catalyst
Recommended Use Reactive agent used to induce curing
Restrictions None
Manufacturer Performance Roof Systems
Address 4821 Chelsea Avenue
Kansas City, MO 64130
Phone Number (800) 727-9872
Emergency Number (800) 424-9300 (CHEMTREC)

SECTION 2 HAZARDS

GHS Classification Organic peroxides (Type D), H242
Skin Irritation: Category 2
Skin Sensitization: Category 1
Eye Irritation: Category 2A
Reproductive toxicity: Category 2

Hazard Pictographs



Signal Word **DANGER**

Hazard Statements
H242 - Heating may cause a fire
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H361 - Suspected of damaging fertility

Precautionary Statements
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from open flames - NO SMOKING
P233 - Keep container tightly closed
P220 - Keep/Store away from clothing/ combustible materials.
P234 - Keep only in original container.
P361 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 - Wash hands, forearms and face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing should not be allowed out of the workplace
P273 - Avoid release into the environment
P280 - Wear protective gloves/ protective clothing/ eye protection/face protection.

Response
P303+P361+P353 - If on skin (or hair), Take off immediately all contaminated clothing. Rinse skin with water/shower
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

ABBREVIATION KEY

SECTION 2 HAZARDS

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 a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

OTHER HAZARDS Temperature control may be required. Hazardous decomposition may occur.

SECTION 3 COMPOSITION

Chemical Composition

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
Dibenzoyl peroxide	94-36-0	49 - 51
Dicyclohexyl phthalate	84-61-7	49 - 51

Note: The above components and their percentages are provided for health and safety purposes, ONLY. This document should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

SECTION 4 FIRST AID MEASURES

Eyes If foreign matter enters eyes, immediately flush with large amounts of potable water for at least 15 minutes or until irritation subsides. Get medical attention if irritation persists.

Skin Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, give oxygen. Get medical attention.

Ingestion Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Symptoms, Acute & Delayed Immediate Medical Attention *Refer to Section 11 - Toxicological Information*
 All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media	Foam CO ₂ , water spray (fog) or foam DO NOT use water jet.
Hazardous Products of Combustions	Carbon dioxide and carbon monoxide.
Firefighting instruction	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from the fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Explosion Hazard	Benzoyl peroxide will explode at temperatures above 392°F (200°C). Do not allow benzoyl peroxide to dry out, as the material will become shock and friction sensitive.
Protection Gear	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate protective clothing to avoid eye and skin contact. Ensure adequate ventilation. Remove all sources of ignition. Avoid dust formation.
Non-Emergency Personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas and keep unnecessary personnel from entering.
Environmental Precautions	Avoid release into the environment. Report releases as required by local, state and federal authorities.
Method and Materials for Containment & Clean Up	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid contamination with reactive substances. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor, <i>see Section 13, Disposal Considerations.</i>

SECTION 7 HANDLING AND STORAGE

Handling	Do not handle until all safety precautions have been read and understood. Use personal protective equipment as described in Section 8. Only use this product with adequate ventilation. Avoid exposure during pregnancy. Use spark-proof tools and explosion-proof equipment
Storage	Store in a cool, dry, well-ventilated area protected from direct sunlight and away from incompatible materials, <i>see Section 10.</i> Temperature control may be required, store at temperatures not exceeding 86°F. Keep only in the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

ABBREVIATION KEY

SCBA = Self-contained breathing apparatus
NFPA = National Fire Protection Association

HEPA = High-efficiency particulate air

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH REL
Dibenzoyl peroxide	94-36-0	5 mg/m ³ TWA	5 mg/m ³ TWA	5 mg/m ³ TWA

**Engineering Measures/
Controls**

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

General Industrial Hygiene

Use good industrial hygiene practices in handling this material.

**Environmental Exposure
Controls**

Follow best practice for site management and disposal of waste.

PERSONAL PROTECTIVE EQUIPMENT

Pictographs



Eyes/Face

Safety glasses with side shields

Follow the national guidelines concerning the use of protective eye wear.

Hand

Protective Gloves

Chemical-resistant, impervious gloves; > 8 hours (breakthrough time): butyl rubber

Skin/Body

Normal work clothing (long sleeved shirts, long pants and smooth bottom work shoes) is recommended.

Inhalation

Use NIOSH or MSHA approved respiratory protective equipment when airborne exposure limits are exceeded.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid Granules
Appearance	White
Odor	odorless
Odor Threshold	No data available
pH	No data available
Relative Evaporation Rate	No data available
Boiling Point	No data available
Freezing Point	No data available
Flash Point	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	No data available
Relative Density	No data available
Density	≈ 778 kg/m ³
Solubility in Water	Insoluble
Viscosity	No data available
VOC	0 g/L
SDAT	140°F

ABBREVIATION KEY

OSHA = Occupational Safety & Health Administration
NIOSH = National Institute for Occupational Safety
ACGIH = American Conference of Governmental Industrial Hygiene
MSHA = Mine Safety and Health Administration

PEL = Permissible Exposure Level
TLV = Threshold Limit Value
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
SDAT = Self-Accelerating decomposition temperature

SECTION 10 STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Reactivity	Hazardous decomposition; risk of causing fire
Incompatibility	Strong acids, strong oxidizing agents, strong bases, reducing agents, copper, iron or rust
Conditions to Avoid	Direct heating, dirt/chemical contamination, sunlight, UV or ionizing radiation, direct sunlight and temperatures above 140°F
Hazardous Polymerization	Direct exposition to sunlight or storage temperatures over 140°F can produce uncontrolled and exothermic polymerization.

SECTION 11 TOXICOLOGICAL INFORMATION

Component Analysis

COMPONENT	CAS NUMBER	ORAL LD50 (mg/kg)	DERMAL LD50 (mg/kg)	INHALATION LC50 (mg/L)
Dibenzoyl peroxide	94-36-0	>5,000 (rat)	N/A	>24.3 (rat) 4 hour
Dicyclohexyl phthalate	84-61-7	>2,000 (rat)	>2,000 (rat)	N/A

POTENTIAL HEALTH EFFECTS

Eyes

Acute (Immediate)	Conjunctivitis, irritation, tearing and burning
Chronic (Delayed)	No data available

Skin

Acute (Immediate)	Irritation and inflammation. Allergic skin reaction may occur. Dermatitis
Chronic (Delayed)	No data available

Inhalation

Acute (Immediate)	Irritation to mucus membranes and respiratory tract, nausea, dizziness and headache
Chronic (Delayed)	No data available

Ingestion

Acute (Immediate)	Product is not intended nor is it likely to be ingested or eaten.
Chronic (Delayed)	No data available

Component Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IRCA, OSHA and NTP.

Teratogenicity

Based on available data, the classification criteria are not met.

Mutagenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Dicyclohexyl phthalate: Suspected of damaging fertility based on some evidence of adverse effects on sexual function.

Aspiration Hazard

Based on available data, the classification criteria are not met.

STOT Single Exposure

Based on available data, the classification criteria are not met.

STOT Repeated Exposure

Based on available data, the classification criteria are not met.

ABBREVIATION KEY

LD50 = Lethal dose, 50 percent
 IARC = International Agency for Research on Cancer
 ACGIH = American Conference of Governmental Industrial Hygiene

LC50 = Lethal concentration, 50 Percent
 NTP = National Toxicology Program
 STOT = Specific Target Organ Toxicity

SECTION 12 ECOLOGICAL INFORMATION

Eco toxicity

COMPONENT	CAS NUMBER	FISH LC50 (mg/L)	DAPHNA EC50 (mg/L)	ALGAE EC50 (mg/L)
Dibenzoyl peroxide	94-36-0	>0.06 (coho salmon) 96 Hours	>0.11 (Water flea) 48 Hours	>0.071 (algae) 72 hours
Dicyclohexyl phthalate	84-61-7	>2 (Oryzias latipes) 96 Hours	>2 (Water flea) 48 Hours	>2 (algae) 72 Hours

Biodegradability

Readily biodegradable. 100 % Biodegradation

Bioaccumulation Potential

COMPONENT	CAS NUMBER	LOG P _{OW}	TEMPERATURE	SOIL pH
Dibenzoyl peroxide	94-36-0	3.2	71.6°F	7.02
Dicyclohexyl phthalate	84-61-7	4.82	77°F	N/A

Soil Absorption/Mobility

No Data

Ozone-Depletion Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B)

SECTION 13 DISPOSAL CONSIDERATIONS

Classification (TDG & DOT)

Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Packaging that cannot be reused after cleaning must be disposed or recycled in accordance with all federal, national and local regulations.

SECTION 14 TRANSPORT INFORMATION

Classification (TDG & DOT)

5.2

Identification Number

UN3106

Shipping name

Organic peroxide type D, solid

Packaging group

II

Remarks

Marine pollutant

ABBREVIATION KEY

LC₅₀ = Lethal concentration, 50 Percent
 lofP_{ow} = octanol-water partition coefficient
 DOT = Department of Transportation

EC₅₀ = Effective concentration, 50 Percent
 RCRA = Resource Conservation and Recovery Act
 TGA = Therapeutic Goods Administration

SECTION 15 REGULATORY INFORMATION

TSCA Inventory Components are listed
DSL Inventory Components are listed
CERCLA This material does not contain any components with a CERCLA RQ.
Sara 311/312 Categories Chronic Health Hazard; Reactivity Hazard; Acute health Hazard
Sara 313 dibenzoyl peroxide (94-36-0) 30-60%
Clean Air Act Does not contain any chemicals listed under the U.S. Clean Air Act Section
CA Proposition 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Right to Know States

COMPONENT	CAS NUMBER	CA	MA	MN	NJ	PA	RI
Dibenzoyl peroxide	94-36-0	Yes	Yes	Yes	Yes	Yes	Yes
Dicyclohexyl phthalate	84-61-7	No	No	Yes	Yes	Yes	No

SECTION 16 OTHER INFORMATION

Preparation Date April 2020
Revision Date March 2022
Summary of Changes Branding Update
Disclaimer The information and recommendations contained herein are to the best of Performance Roof Systems' knowledge and belief, accurate and reliable as of the date issued. Performance Roof Systems does not warrant or guarantee their accuracy or reliability, and Performance Roof Systems shall not be liable for any loss or damage arising out of the use thereof.
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