

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 06/03/2021 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Trade name : Osteo-Bed Catalyst

Product code : 17734C

1.2. Recommended use and restrictions on use

Recommended use : Use as laboratory reagent, Manufacture of substances

1.3. Supplier

Supplier

Polysciences 400 Valley Road

Warrington, PA 18976 - United States T +1 215 343 6484 - F +1 215 343 0214 info@polysciences.com - www.polysciences.com

1.4. Emergency telephone number

Emergency number : 24-hour emergency phone number ChemTel 1-800-255-3924

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Self-reactive substances and mixtures Category A

Oxidizing liquids Category 3
Organic Peroxide Category B

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2B

Hazardous to the aquatic environment – Chronic Hazard

Category 3

Heating may cause an explosion

May intensify fire; oxidizer

Heating may cause a fire or explosion

Causes skin irritation
Causes eye irritation

Harmful to aquatic life with long lasting effects

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)









Signal word (GHS US) : Danger

Hazard statements (GHS US) : Heating may cause an explosion

Heating may cause a fire or explosion

May intensify fire; oxidizer Causes skin irritation Causes eye irritation

Harmful to aquatic life with long lasting effects

Precautionary statements (GHS US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

Keep/Store away from clothing and other combustible materials

Take any precaution to avoid mixing with combustibles

Keep only in original container.

Wash hands, forearms and face thoroughly after handling.

Avoid release to the environment.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

Substances

Not applicable

3.2. **Mixtures**

Name	Product identifier	%	GHS US classification
BENZOYL PEROXIDE	(CAS-No.) 94-36-0	51 – 60	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317
1,2-Benzenedicarboxylic acid, dicyclohexyl ester	(CAS-No.) 84-61-7	51 – 60	Skin Sens. 1, H317 Repr. 2, H361 STOT RE 2, H373 Aquatic Chronic 3, H412

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

SECTION 4: First-aid measures

Description of first aid measures

: Call a physician immediately. First-aid measures general

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact Wash skin with plenty of water. Remove/Take off immediately all contaminated clothing. If skin

irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a physician immediately.

Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Mild eye irritation.

Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Specific hazards arising from the chemical

Fire hazard : Heating may cause a fire or explosion. May intensify fire; oxidizer.

Explosion hazard : Heating may cause an explosion. Hazardous decomposition products in case of : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Evacuate area. Fight fire remotely due to the risk of explosion.

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. No open

flames, no sparks, and no smoking.

6.1.2. For emergency responders

: Do not attempt to take action without suitable protective equipment. For further information Protective equipment

refer to section 8: "Exposure controls/personal protection".

Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

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Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. 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.

Hygiene measures

Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store at 4 deg. C. Keep cool. Store in a well-ventilated place. Store away from other materials. Protect from sunlight. Keep only in original container.

Incompatible materials : Combustible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Osteo-Bed Catalyst

No additional information available

BENZOYL PEROXIDE (94-36-0)

No additional information available

1,2-Benzenedicarboxylic acid, dicyclohexyl ester (84-61-7)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Mixture contains one or more component(s) which have the following colour(s):

white

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Odor : There may be no odour warning properties, odour is subjective and inadequate to warn of

overexposure.

Mixture contains one or more component(s) which have the following odour:

mild aromatic

Odor threshold : No data available pH : No data available Melting point : Not applicable Freezing point : No data available Boiling point : No data available

Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : Not applicable. Heating may cause a fire.

Vapor pressure No data available : No data available Relative vapor density at 20°C Relative density : No data available Solubility : No data available : No data available Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature No data available Decomposition temperature : No data available : No data available Viscosity, kinematic Viscosity, dynamic No data available **Explosion limits** No data available

Explosive properties : Heating may cause an explosion.

Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Heating may cause a fire or explosion. May intensify fire; oxidizer. Heating may cause an explosion.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Combustible materials.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

1,2-Benzenedicarboxylic acid, dicyclohexyl ester (84-61-7)		
LD50 oral rat	30 ml/kg	
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))	
Skin corrosion/irritation	: Causes skin irritation.	

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Serious eye damage/irritation : Causes eye irritation.
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

BENZOYL PEROXIDE (94-36-0)

IARC group 3 - Not classifiable

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

1,2-Benzenedicarboxylic acid, dicyclohexyl ester (84-61-7)		
NOAEL (oral,rat,90 days)	50 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Mild eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Harmful to aquatic life with long lasting effects.

1,2-Benzenedicarboxylic acid, dicyclohexyl ester (84-61-7)		
LC50 fish 1	> 2 mg/l Test organisms (species): Oryzias latipes	
LOEC (chronic)	0.572 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	0.181 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN3106 Organic peroxide type D, solid, 5.2

UN-No.(DOT) : UN3106

Proper Shipping Name (DOT) : Organic peroxide type D, solid

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Class (DOT) : 5.2 - Class 5.2 - Organic Peroxide 49 CFR 173.128

Hazard labels (DOT) : 5.2 - Organic peroxide



DOT Packaging Non Bulk (49 CFR 173.xxx) : 225
DOT Packaging Bulk (49 CFR 173.xxx) : None

DOT Symbols : G - Identifies PSN requiring a technical name

DOT Packaging Exceptions (49 CFR 173.xxx) : 152

DOT Quantity Limitations Passenger aircraft/rail : 5 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 10 kg

CFR 175.75)

DOT Vessel Stowage Location : D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel

carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger

vessels in which the limiting number of passengers is exceeded.

DOT Vessel Stowage Other : 12 - Keep as cool as reasonably practicable, 25 - Protected from sources of heat, 52 - Stow

"separated from" acids,53 - Stow "separated from" alkaline compounds

Emergency Response Guide (ERG) Number :

Other information : No supplementary information available.

Transportation of Dangerous Goods

Not applicable

Transport by sea

Transport document description (IMDG) : UN 3106 ORGANIC PEROXIDE TYPE D, SOLID, 5.2

UN-No. (IMDG) : 3106

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

Class (IMDG) : 5.2 - Organic peroxides

Limited quantities (IMDG) : 500 g

Air transport

Transport document description (IATA) : UN 3106 Organic peroxide type D, solid, 5.2

UN-No. (IATA) : 3106

Proper Shipping Name (IATA) : Organic peroxide type D, solid Class (IATA) : 5.2 - Organic Peroxides

SECTION 15: Regulatory information

15.1. US Federal regulations

BENZOYL PEROXIDE (94-36-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

1,2-Benzenedicarboxylic acid, dicyclohexyl ester (84-61-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Osteo-Bed Catalyst

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

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BENZOYL PEROXIDE (94-36-0)

Listed on the Canadian DSL (Domestic Substances List)

1,2-Benzenedicarboxylic acid, dicyclohexyl ester (84-61-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

1,2-Benzenedicarboxylic acid, dicyclohexyl ester (84-61-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

1,2-Benzenedicarboxylic acid, dicyclohexyl ester (84-61-7)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

Component	State or local regulations
BENZOYL PEROXIDE(94-36-0)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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SDS US (GHS HazCom 2012)

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