

1. Product and Company Identification

www.rxmarine.com

Product Name Benzoyl Peroxide
Part No RXSOL-19-3356-020

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Kandla, Chennai, Vizag,Kolkata,UAE,Oman,Kenya

Phone +91 22 2087 1200-1400
Fax +91 22 2087 1500:::AOH :0091 9821214367
Email mail@rxmarine.com
Website www.rxmarine.com

2. Composition / Information on ingredients

www.rxmarine.com

Chemical Name	CAS-No	EC-No.	Weight	Index-No	Formula
Benzoyl peroxide	94-36-0	202-327-6	242.23 g/mol	617-008-00-0	C14H10O4

3. Hazards Identification

www.rxmarine.com

Classification according to Regulation Organic peroxides (Type C), H242 Eye irritation (Category 2), H319 Skin sensitization (Category 1), H317 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410

Signal Word Danger

Hazard statement(s)

H242 Heating may cause a fire.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects. Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P235 Keep cool.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P370 + P378 In case of fire Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P410 Protect from sunlight.

Supplemental Hazard Statements

None

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

4. First Aid Measures

www.rxmarine.com

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

Indication of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting Measures

www.rxmarine.com

Extinguishing media

Suitable extinguishing media Water Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given
Carbon oxides Combustible. Has a fire-promoting effect due to release of oxygen. Avoid shock and friction. In the event of decomposition: danger of explosion! Explosive decomposition possible on heating Development of hazardous combustion gases or vapours possible in the event of fire

Special hazards arising from the substance or mixture

Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

www.rxmarine.com

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Environmental precautions

Do not let product enter drains

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Reference to other sections

For disposal see section 13.

7. Handling and Storage

www.rxmarine.com

Precautions for safe handling

Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Conditions for safe storage, including any incompatibilities

Storage conditions Tightly closed and away from sources of ignition and heat. Observe national regulations. Recommended storage temperature see product label. Storage class S(TRGS 510): 4.1A: Other explosive hazardous materials Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

www.rxmarine.com

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: > 480 min Material tested:KCL 741 Dermatril® L This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: > 480 min Material tested:KCL 741 Dermatril® L

Body Protection

Protective clothing

Respiratory protection

Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

9. Physical and chemical properties

www.rxmarine.com

Physical state

crystals

Color

White

Odor

bitter almond-like

Melting point/freezing point	Melting point: 100 - 105 °C - (decomposition)
Initial boiling point and boiling range	No data available
Flammability (solid, gas)	Flammable solid
Upper/lower flammability or explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	> 70 °C
Water solubility	0,35 mg/l at 20 °C - OECD Test Guideline 105
PH	No data available
Partition coefficient: n-octanol/water	log Pow: 3,2 at 22 °C - Bioaccumulation is not expected.
Vapor pressure	< 1 hPa at 20 °C
Density	1,33 g/cm ³ at 25 °C
Explosive properties	Explosive when dry.
Oxidizing properties	Oxidizing potential
Bulk density	500 - 600 kg/m ³
Particle size	135 µm - OECD Test Guideline 110 - Mean particle size
Relative vapor density	8,4

10. Stability and reactivity

www.rxmarine.com

Reactivity	Explosive Mechanical sensitivity (friction) sensitive to shock The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical stability	Decomposes on exposure to light. The product is chemically stable under standard ambient conditions (room temperature) . Contains the following stabilizer(s): water (25 %)
Possibility of hazardous reactions	Exothermic reaction with: carbon/soot polymerisable substances Risk of explosion with: Alcohols Amines polymerisation initiators Reducing agents alkalines Strong acids Organic acids anilines Chloroform dimethyl sulfoxide iron(III) compounds lithium aluminium hydride Metallic salts
Conditions to avoid	Temperatures above melting point. Heating may cause a fire. no information available
Incompatible materials	No information available
Hazardous decomposition products	In the event of fire: see section 5

11. Toxicological information

www.rxmarine.com

Acute toxicity	LD ₀ Oral - Mouse - male and female - > 2.000 mg/kg (OECD Test
----------------	---------------------------------------------------------------------------

	Guideline 401) LD0 Oral - Mouse - male and female - > 2.000 mg/kg (Benzoyl peroxide) (OECD Test Guideline 401) Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.
Skin corrosion/irritation	Skin - Rabbit (Benzoyl peroxide) Result: No skin irritation - 4 h (OECD Test Guideline 404) Remarks: No data available
Serious eye damage/eye irritation	Remarks: Causes serious eye irritation.
Respiratory or skin sensitization	Local lymph node assay (LLNA) - Mouse (Benzoyl peroxide) Result: positive (OECD Test Guideline 429)
Germ cell mutagenicity	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Mouse lymphoma test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: Ames test (Benzoyl peroxide) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test (Benzoyl peroxide) Test system: Mouse lymphoma test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
Aspiration hazard	No data available (Benzoyl peroxide)
Endocrine disrupting properties	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male and female - Dermal - 104 Weeks - NOAEL (No observed adverse effect level) - 100 - 150 mg/kg (Benzoyl peroxide) Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Benzoyl peroxide)

12. Ecological information

www.rxmarine.com

Toxicity to fish	Semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - 0,06 mg/l - 96 h (Benzoyl peroxide) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrate	Static test EC50 - Daphnia magna (Water flea) - 0,11 mg/l - 48 h (Benzoyl peroxide) (OECD Test Guideline 202)
Toxicity to algae	Static test ErC50 - Pseudokirchneriella subcapitata (green algae) 0,0711 mg/l - 72 h (Benzoyl peroxide) (OECD Test Guideline 201) static test NOEC - Pseudokirchneriella subcapitata (green algae) 0,02 mg/l - 72 h (Benzoyl peroxide) (OECD Test Guideline 201)
Toxicity to bacteria	Static test EC50 - activated sludge - 35 mg/l - 0,5 h (Benzoyl peroxide) (OECD Test Guideline 209)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity	Semi-static test EC10 - Daphnia magna (Water flea) - 0,001 mg/l 21 d (Benzoyl peroxide) (OECD Test Guideline 211)
Persistence and degradability	Biodegradability aerobic - Exposure time 28 d (Benzoyl peroxide) Result: 71 % - Readily biodegradable. (OECD Test Guideline 301D)
Bioaccumulative potential	No data available
Mobility in soil	No data available (Benzoyl peroxide)
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects	Biological effects: Hazard for drinking water supplies. Discharge into the environment must be avoided.

13. Disposal considerations

www.rxmarine.com

Waste treatment methods

No data available

14. Transport information

www.rxmarine.com

ADR - Packing instructions : P001

ADR - Limited Quantity : 1 L

ADR - Tunnel code : D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and

E. Other carriage: Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : ACETIC ACID,

UN N° : 2789

IMO-IMDG - Class or division : 8 : Corrosive substance. (3 : Flammable liquid.)

IMO-IMDG - Packing group : II

IMO- IMDG - Packing instructions : P001

IMO-IMDG - Limited quantities : 1 L

IMO-IMDG - Marine pollution : No

EMS-Nr : F-E S-C

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : ACETIC ACID

UN N° : 2789

IATA - Class or division : 8 : Corrosive substance. (3 : Flammable liquid.)

IATA - Packing group : II

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing : 851

instruction

- Passenger and Cargo - Maximum : 1 L

Quantity/Packing

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 855

- Cargo only - Maximum Quantity/ : 30 L

Packing

IATA - Limited Quantities : 0.5 L

ERG-Nr : 8F

UN number	ADR/RID: 3104 IMDG: 3104 IATA: 3104
UN proper shipping name	ADR/RID: ORGANIC PEROXIDE TYPE C, SOLID (DIBENZOYL PEROXIDE) IMDG: ORGANIC PEROXIDE TYPE C, SOLID (DIBENZOYL PEROXIDE) IATA: Organic peroxide type C, solid (Dibenzoyl peroxide) Special Provisions: ☑Keep away from heat☑ label required.
Transport hazard class(es)	ADR/RID: 5.2 IMDG: 5.2 IATA: 5.2
Packaging group	ADR/RID: - IMDG: - IATA: -
Environmental hazards	ADR/RID: No IMDG Marine pollutant: No IATA: No
Special precautions for user	No data available

15. Regulatory information

www.rxmarine.com

Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
National legislation	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
Other regulations	Take note of Dir 94/33/EC on the protection of young people at work
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out

16. Other information

www.rxmarine.com

Waste treatment methods	No data available
-------------------------	-------------------

Other informatoin	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.
Abbreviations and acronyms	PBTpersistent, bioaccumulative and toxic.
Sources of key data used	vPvBvery persistent and very bioaccumulative REGULATION (EC) No 1272/2008 OF THE EUROPEAN
Sources of key data used	PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
Waste treatment methods	No data available

DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.