



Revision date 23-November-2022 Revision Number 2

## 1. Identification

**Product identifier** 

Product Name HYDROUS BENZOYL PEROXIDE, USP

Other means of identification

Product Code(s) BE156

UN/ID no UN3104

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use No information available

Restrictions on use No information available

Details of the supplier of the safety data sheet

**Supplier Address** 

Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

# 2. Hazard(s) identification

## Classification

| Skin corrosion/irritation                        | Category 2  |
|--|-------------|
| Serious eye damage/eye irritation                | Category 2A |
| Specific target organ toxicity (single exposure) | Category 3  |
| Organic peroxides                                | Type C      |

#### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

Danger

## Hazard statements

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction

May cause respiratory irritation Heating may cause a fire May mass explode in fire



Appearance Wetted solid Granular

Physical state slurry in water

Odor No information available

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

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

Keep/Store away from clothing/ combustible materials

Keep only in original container

Wear protective gloves/eye protection/face protection

### **Precautionary Statements - Response**

Specific treatment (see .? on this label)

IF IN EYES: 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

IF ON SKIN: Wash with plenty of water and soap

Take off contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed

Store locked up.

Store at temperatures not exceeding .?1 °C/ .?2 °F. Keep cool

Protect from sunlight

Store away from other materials

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

Very toxic to aquatic life with long lasting effects.

## 3. Composition/information on ingredients

#### Substance

Not applicable.

## <u>Mixture</u>

| Chemical name             | CAS No    | Weight-% |
|---------------------------|-----------|----------|
| Benzoyl Peroxide, Hydrous | 94-36-0   | 60 - 80  |
| Water                     | 7732-18-5 | 20 - 40  |

## 4. First-aid measures

## **Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical

attention immediately if symptoms occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

**Skin contact** May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a

physician. Wash off immediately with soap and plenty of water for at least 15 minutes.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or

clothing.

Most important symptoms and effects, both acute and delayed

**Symptoms** Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

# 5. Fire-fighting measures

surrounding environment. Water spray or fog is preferred; if water not available use dry chemical, CO2 or regular foam. Flood fire area with water from a distance. Use water spray or fog; do not use straight streams. Move containers from fire area if you can do it without

risk. Cool containers with flooding quantities of water until well after fire is out.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media**Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the These su

chemical

These substances will accelerate burning when involved in a fire. Some may burn rapidly with flare burning effect. Some may decompose explosively when heated or involved in a fire. May ignite combustibles (wood paper, oil, clothing, etc.). Runoff may create fire or explosion hazard. Keep product and empty container away from heat and sources of ignition. Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous combustion products Carbon

Carbon Monoxide, Carbon Dioxide. Benzene. Benzoic acid. Decomposition of benzoyl peroxide releases dense white smoke, toxic and irritating fumes and gases containing benzoic acid, phenyl benzoate, terphenyls, biphenyls, benzene, and carbon dioxide.

**Explosion data** 

Sensitivity to mechanical impact none.

Sensitivity to static discharge yes.

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. oxidizer. May ignite combustibles (wood paper, oil, clothing, etc.). Some may burn rapidly with flare burning effect. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Evacuate personnel

to safe areas. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See section 8 for more information. Stop leak if you can do it without risk. DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST. Use personal

protective equipment as required.

Other information Keep combustibles (wood, paper, oil, etc) away from spilled material. ELIMINATE all

ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate the

area. Refer to protective measures listed in Sections 7 and 8.

## Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover

powder spill with plastic sheet or tarp to minimize spreading. Take up with inert, damp, non-combustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal. Flush area with flooding quantities of water. Prevent

product from entering drains.

# 7. Handling and storage

### Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin, eyes or clothing. Keep away

from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Use only with adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Avoid

breathing vapors or mists.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Keep wetted with water.

# 8. Exposure controls/personal protection

## Control parameters

**Exposure Limits**The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure

| limits from the sources listed here. | lir | nits | from | the | sources | listed | here. |
|--------------------------------------|-----|------|------|-----|---------|--------|-------|
|--------------------------------------|-----|------|------|-----|---------|--------|-------|

| Chemical name             | ACGIH TLV         | OSHA PEL    | NIOSH IDLH |
|---------------------------|-------------------|-------------|------------|
| Benzoyl Peroxide, Hydrous | No data available | 5 mg/m³ TWA | -          |
| 94-36-0                   |                   |             |            |

## **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Remove and wash contaminated

clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state slurry in water
Appearance Wetted solid Granular

**Color** White

Odor No information available Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

no data available None known Hq 105 °C / 221 °F None known Melting point / freezing point Boiling point / boiling range no data available None known Flash point no data available None known **Evaporation rate** no data available None known Flammability (solid, gas) no data available None known Flammability Limit in Air None known

**Upper flammability or explosive** No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableNone knownVapor densityno data availableNone known

Relative density1.3None knownWater solubilityPractically insoluble in waterNone knownSolubility(ies)Soluble in AcetoneNone known

Soluble in diethyl ether Soluble in Chloroform Soluble in Benzene Slightly soluble in alcohol

Partition coefficientNo data availableNone knownAutoignition temperatureno data availableNone knownDecomposition temperatureNone known

Kinematic viscosityno data availableNone knownDynamic viscosityNo data availableNone known

Other information

**Explosive properties**No information available **Oxidizing properties**No information available

Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information availableLiquid DensityNo information availableBulk densityNo information available

## 10. Stability and reactivity

Reactivity Oxidizer.

**Chemical stability** May cause fire or explosion; strong oxidizer.

Possibility of hazardous reactions 
None under normal processing.

**Conditions to avoid** Heat, flames and sparks. Incompatible materials.

Incompatible materials Organic material. Combustible material. Hydrocarbons. Strong acids. Strong bases. Strong

oxidizing agents.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

### Information on likely routes of exposure

Product Information .

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Irritating to eyes. (based on

components). Causes serious eye irritation.

**Skin contact** May cause sensitization by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components). Causes skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

**Acute toxicity** 

**Numerical measures of toxicity** 

**Component Information** 

|  | Chemical name  | Oral LD50     | Dermal LD50 | Inhalation LC50 |  |
|--|--|---------------|-------------|-----------------|--|
|  | Benzoyl Peroxide, Hydrous = 6400 mg/kg ( Rat ) 94-36-0 |               | -           | -               |  |
|  | Water<br>7732-18-5                                     | 90 mL/kg(Rat) | -           | -               |  |

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** May cause sensitization by skin contact.

**Germ cell mutagenicity**No information available.
No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name     | ACGIH | IARC                      | NTP | OSHA |
|-------------------|-------|---------------------------|-----|------|
| Benzoyl Peroxide, | -     | Group 3- Not classifiable | -   | -    |
| Hydrous           |       | - Monograph 71 [1999]     |     |      |
| 94-36-0           |       | Supplement 7 [1987]       |     |      |
|                   |       | Monograph 36 [1985]       |     |      |

Legend

Reproductive toxicity No information available.

STOT - single exposureMay cause respiratory irritation.STOT - repeated exposureNo information available.Target organ effectsrespiratory system, Eyes, Skin.

**Aspiration hazard** No information available.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Chemical name     | Algae/aquatic plants | Fish                | Toxicity to    | Crustacea             |
|-------------------|----------------------|---------------------|----------------|-----------------------|
|                   |                      |                     | microorganisms |                       |
| Benzoyl Peroxide, | 72 h EC50: 0.06 mg/l | 96 h LC50 0.06 mg/l | -              | 48 h EC50: 0.11 mg/ll |
| Hydrous           | _                    | _                   |                | (Daphnia Magna)       |
| 94-36-0           |                      |                     |                |                       |

Persistence and degradability

Bioaccumulation

No information available.
Inherently biodegradable.

Other adverse effects No information available.

# 13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# 14. Transport information

DOT

**TDG** 

UN/ID no UN3104

**Proper Shipping Name:** Organic peroxide type C, solid

Hazard class 5.2

Marine pollutant Benzoyl Peroxide, Hydrous

**Description:** UN3104, Organic peroxide type C, solid, 5.2

**Emergency Response Guide** 146

Number

**UN-No:** UN3104

Proper Shipping Name: Organic peroxide type C, solid

Hazard class 5.2 Packing Group: II Special Provisions 16, 38

Marine pollutant Benzoyl Peroxide, Hydrous.

Description: UN3104, Organic peroxide type C, solid (Benzoyl Peroxide, Hydrous), 5.2, II

MEX

UN-No UN3104

**Proper Shipping Name** Organic peroxide type C, solid

Hazard class 5.2

**Special Provisions** 122, 195, 274, 323

**Description** UN3104, Organic peroxide type C, solid, 5.2

ICAO (air)

**UN-No:** UN3104

Proper Shipping Name: Organic peroxide type C, solid

Hazard class 5.2 Special Provisions A150, A20

**Description:** UN3104, Organic peroxide type C, solid (Benzoyl Peroxide, Hydrous), 5.2

IATA

UN number UN3104

**Proper Shipping Name:** Organic peroxide type C, solid

Transport hazard class(es) 5.2 ERG Code 5L

Special Provisions A20, A150, A802

Description: UN3104, Organic peroxide type C, solid (Benzoyl Peroxide, Hydrous), 5.2

**IMDG** 

UN number UN3104

**Proper shipping name** Organic peroxide type C, solid

Transport hazard class(es) 5.2 EmS-No F-J, S-R Special Provisions 122, 195, 274

Marine pollutant P

**Description** UN3104, Organic peroxide type C, solid, 5.2, Marine pollutant

<u>RID</u>

UN number UN3104

Proper Shipping Name: ORGANIC PEROXIDE TYPE C, SOLID

Transport hazard class(es) 5.2 Classification code P1 Special Provisions 122, 274

**Description:** UN3104, ORGANIC PEROXIDE TYPE C, SOLID (Benzoyl Peroxide, Hydrous), 5.2,

**ENVIRONMENTALLY HAZARDOUS** 

Labels 5.2

<u>ADR</u>

UN number UN3104

**Proper Shipping Name:** Organic peroxide type C, solid

Transport hazard class(es) 5.2
Classification code P1
Tunnel restriction code (D)
Special Provisions 122, 274

**Description:** UN3104, Organic peroxide type C, solid (Benzoyl Peroxide, Hydrous), 5.2, (D),

**ENVIRONMENTALLY HAZARDOUS** 

Labels 5.2

ADN

UN/ID No UN3104

**Proper shipping name** Organic peroxide type C, solid

Transport hazard class(es) 5.2
Classification code P1
Special Provisions 122, 274

**Description** UN3104, Organic peroxide type C, solid (Benzoyl Peroxide, Hydrous), 5.2,

**ENVIRONMENTALLY HAZARDOUS** 

Hazard label(s) 5.2
Limited quantity (LQ) 100 g
ventilation VE01
Equipment Requirements PP, EX, A

## 15. Regulatory information

#### **International Inventories**

TSCA Complies

DSL/NDSL Complies EINECS/ELINCS Complies

**ENCS** This product complies with ENCS: **IECSC** This product complies with China:

KECL Complies PICCS Complies

AICS All the constituents of this material are listed on the Australian Inventory of Chemical

Substances (AICS).

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical SubstancesIECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

## **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name                       | SARA 313 - Threshold Values % |
|-------------------------------------|-------------------------------|
| Benzoyl Peroxide, Hydrous - 94-36-0 | 1.0                           |

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

| Chemical name             | New Jersey | Massachusetts | Pennsylvania         |
|---------------------------|------------|---------------|----------------------|
| Benzoyl Peroxide, Hydrous | 0215       | Present       | Environmental hazard |
| 94-36-0                   |            |               |                      |

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

**NFPA** 

Health hazards 2 Flammability 0

Instability 1

Physical and chemical properties OX

HMIS

Health hazards 2 Flammability 0 Physical hazards 1 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

. Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date23-November-2022Revision NoteNo information available.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**