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Benzoyl Peroxide

SECTION 1: Identification of the substance/mixture and of the supplier

Product name : Benzoyl Peroxide

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: \$25672

Recommended uses of the product and uses restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific 9 Barnhart Drive, Hanover, PA 17331

Supplier Details:

Fisher Science Education 15 Jet View Drive, Rochester, NY 14624

Emergency telephone number:

SECTION 2: Hazards identification

Classification of the substance or mixture:



Flammable

Flammable solids, category 1



Health hazard

Carcinogenicity, category 2



Irritant

Acute toxicity (oral, dermal, inhalation), category 4



Environmentally Damaging

Acute hazards to the aquatic environment, category 1 Chronic hazards to the aquatic environment, category 1

Flam. Sol. 1 Acute Oral Tox. 4 Carc. 2 Aquatic Acute 1 Aquatic Chronic 1

Signal word : Danger

Hazard statements:

Flammable solid
Harmful if swallowed
Suspected of causing cancer
Very toxic to aquatic life with long lasting effects

Precautionary statements:

If medical advice is needed, have product container or label at hand

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Benzoyl Peroxide

Keep out of reach of children

Read label before use

Obtain special instructions before use

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

Do not handle until all safety precautions have been read and understood

Keep away from heat/sparks/open flames/hot surfaces. No smoking

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/light/equipment

Wash skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid release to the environment

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

IF exposed or concerned: Get medical advice/attention

Rinse mouth

In case of fire: Use agents recommended in section 5 for extinction

Collect spillage Store locked up

Dispose of contents and container to an approved waste disposal plant

Other Non-GHS Classification:

WHMIS





NFPA/HMIS





HMIS RATINGS (0-4)

SECTION 3: Composition/information on ingredients

Ingredients:		
CAS 91-20-3	Naphthalene	100 %
		Percentages are by weight

SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give

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oxygen.Loosen clothing and place exposed in a comfortable position.Call a physician or Poison Control Center immediately.

After skin contact: Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.

After eye contact: Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Seek medical attention if irritation persists or concerned.

After swallowing: Rinse mouth with water.Do not induce vomiting. Never give anything by mouth to an unconscious person.Seek medical attention if irritation, discomfort, or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Irritation.Shortness of breath.Headache.Nausea.Dizziness.;Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Naphthalene is retinotoxic and systemic absorption of its vapors above 15ppm, may result in:, cataracts, optic neuritis, corneal injury, Eye irritation, Ingestion may provoke the following symptoms:, hemolytic anemia, hemoglobinuria, Nausea, Headache, Vomiting, Gastrointestinal disturbance, Convulsions, anemia, Kidney injury may occur., Seizures., Coma.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically. Move out of dangerous area.

SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents: Water or foam may cause frothing.

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors. Dusts may be an explosion hazard if mixed with air at critical proportions and in the presence of an ignition source. Volatile solid that gives off flammable vapors when heated.

Advice for firefighters:

Protective equipment: Wear protective eyeware, gloves, and clothing. Refer to Section 8.

Additional information (precautions): Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational. Avoid contact with skin, eyes and clothing.

Environmental precautions:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

Methods and material for containment and cleaning up:

Wear protective eyeware, gloves, and clothing. Refer to Section 8.Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13.Keep in suitable closed containers for disposal. Use non-sparking equipment.

Reference to other sections:

SECTION 7: Handling and storage

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Benzoyl Peroxide

Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances. Use adequate general or local explosion-proof ventilation. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials. Keep away from open flames, hot surfaces and sources of ignition.

SECTION 8: Exposure controls/personal protection





Control Parameters: 91-20-3, Naphthalene, ACGIH TLV: 50 mg/m3 (10ppm) 91-20-3, Naphthalene, OSHA PEL TWA 50 mg/m3

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational

Exposure Limits-OELs) indicated above.

Respiratory protection: Not required under normal conditions of use. Where risk assessment

shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved

breathing equipment.

Protection of skin: Select glove material impermeable and resistant to the substance. Select

glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear

protective clothing.

Eye protection: Wear equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.

General hygienic measures: Perform routine housekeeping. Wash hands before breaks and

immediately after handling the product. Avoid contact with skin, eyes, and

clothing. Before rewearing wash contaminated clothing.

SECTION 9: Physical and chemical properties

Appearance (physical state,color):	White Solid	Explosion limit lower: Explosion limit upper:	0.9% (V) 5.9% (V)
Odor:	Mothball-like	Vapor pressure:	0.08 mbar @ 20 °C
Odor threshold:	Not Determined	Vapor density:	4.4
pH-value:	Not Determined	Relative density:	0.990

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Melting/Freezing point:	79.5 - 81.0 °C (175.1 - 177.8 °F)	Solubilities:	Insoluble in water
Boiling point/Boiling range:	218 °C (424 °F)	Partition coefficient (noctanol/water):	log Pow: 3.30
Flash point (closed cup):	80.0 °C (176.0 °F)	Auto/Self-ignition temperature:	526.0 °C (978.8 °F)
Evaporation rate:	Not Determined	Decomposition temperature:	Not Determined
Flammability (solid,gaseous):	Flammable solid	Viscosity:	a. Kinematic:Not Determined b. Dynamic: Not Determined
Density: Not Determined			

SECTION 10 : Stability and reactivity

Reactivity: Nonreactive under normal conditions.

Chemical stability: Stable under normal conditions.

Possible hazardous reactions: None under normal processing.

Conditions to avoid:Incompatible materials. Ignition sources, dust generation, moisture, excess heat, exposure to moist air or water, steam

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Irritating and toxic fumes and gases. Carbon oxides.

SECTION 11 : Toxicological information

Acute Toxicity:	
Oral:	LD50 Rat: 490 mg/kg
Inhalation:	LC50 Rat: >85 mg/m3 - 4h
Chronic Toxicity: No additional information	1.
Corrosion Irritation:	
Ocular:	Rabbit: mild eye irritation
Sensitization:	No additional information.
Single Target Organ (STOT):	No additional information.
Numerical Measures:	No additional information.
Carcinogenicity:	IARC:: Group 2B: Possibly carcinogenic to humans (Naphthalene) NTP:: Reasonably anticipated to be a human carcinogen (Naphthalene)
Mutagenicity:	No additional information.
Reproductive Toxicity:	No additional information.

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SECTION 12: Ecological information

Ecotoxicity

Fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0.9 - 9.8 mg/l - 96.0 h: 91-20-3 (Naphthalene) Invertebrates EC50 - Daphnia magna (Water flea) - 1.00 - 3.40 mg/l - 48 h: 91-20-3 (Naphthalene)

Algae EC50 - No information available. - 33.00 mg/l - 24 h: 91-20-3 (Naphthalene)

Persistence and degradability: Not readily biodegradable.

Bioaccumulative potential: Bioconcentration factor (BCF): 427 - 1,158

Mobility in soil:

Other adverse effects:

SECTION 13: Disposal considerations

Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14: Transport information

UN-Number

1334

UN proper shipping name

Napthalene, crude

Transport hazard class(es)



Class:

4.1 Flammable solids, self-reactive substances and solid desensitized explosives

Packing group: III

Environmental hazard:

Transport in bulk:

Special precautions for user:

SECTION 15: Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Acute, Chronic, Fire

SARA Section 313 (Specific toxic chemical listings):

91-20-3 Naphthalene

RCRA (hazardous waste code):

91-20-3 Naphthalene - U165

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

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Benzoyl Peroxide

91-20-3 Naphthalene 100 lb

Proposition 65 (California):

Chemicals known to cause cancer:

91-20-3 Naphthalene

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

91-20-3 Naphthalene

SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note: . The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases:

Abbreviations and acronyms:

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