

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Benzo[a]pyrene

Product ID B1652

Chemical Name (Synonyms)

1,2-benzpyrene; 1,2-benzopyrene, 6,7-benzopyrene; benzo[a]pyrene; BP; 3,4-benzylpyrene; 3,4-benz [a]pyrene; 3,4-BP; 3,4-benzopyrene

LKT Laboratories, Inc.

545 Phalen Blvd. **Supplier**

St. Paul, MN 55130 USA

Ph: 651-644-8424 Fax: 651-644-8357 www.lktlabs.com - getinfo@lktlabs.com

Emergency Phone # 1-800-424-9300

Section 2. Hazards Identification

GHS Classification

Skin sensitization (Category 1), H317 Germ cell mutagenicity (Category 1B), H340 Carcinogenicity (Category 1B), H350 Reproductive toxicity, H360 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

GHS Label elements including precautionary statements

Pictogram







Signal word

Danger

Hazard and precautionary statements

Hazard statements

H317 - May cause an allergic skin reaction.

H340 - May cause genetic defects.

H340 - May cause general colors.
H350 - May cause cancer.
H360 - May damage fertility or the unborn child.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing dust, fumes, gas, mist, vapors and spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P308 + P313 - If exposed or concerned: Get medical advice and attention. P321 - Specific treatment (see supplemental first aid instructions on this label). P333 + P313 - If skin irritation or rash occurs: Get medical advice and attention.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.

P405 - Store locked up

P501 - Dispose of contents and container to an approved waste disposal plant.

HMIS Classification Health hazard: 3

Chronic health hazard: * Flammability: 0 Physical hazard: 0

NFPA Rating

Health hazard: 3 Fire hazard: 0 Reactivity hazard: 0

Potential Health Effects

Inhalation - May be harmful if inhaled. May cause respiratory irritation.

Skin - May be harmful if absorbed through skin. May cause an allergic skin reaction.

Eyes - May cause eye irritation. Ingestion - May be harmful if swallowed.

Substances

 Formula
 C₂₀H₁₂
 Formula Wt.
 252.32

 CAS No.
 50-32-8
 EC No.
 200-028-5

Section 4. First Aid Measues

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Wash off with soap and plenty of water. Consult a physician.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 . Firefighting Measures

Flash Point

Not available.

Extingushing Media

Use water spray, alcohol-resistant foam, dry chemical, carbon dioxide.

Firefighting Procedures

Wear self-contained breathing apparatus for firefighting if necessary.

•

Carbon oxides.

Unusual Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleanup

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: Ambient

Hazardous Decomposition Products

Other decomposition products - Not available.

Other Remarks

Section 8. Exposure Controls/Personal Protection

Section 9. Physical and Chemical Properties

Personal protective EXPOSURE CONTROLS

equipment Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

PERSONAL PROTECTION

Eye/face protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal

technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full and Splash contact - Material: Nitrile rubber, Minimum layer thickness: 0.11mm, Break through time: 480 min., Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M).

Body protection:

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. **Respiratory protection:**

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. IF the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Solid. Bright yellow, slightly greenish crystals; fluffy **Physical State** Color 494-496°C Not available. Volatility **Boiling Point** Not available. 176°C-178°C **Melting Point Density** Soluble in chloroform, benzene, toluene, or Not available. Solubility pН xylene. Not available. Not available. Ignition Flash Point temperature Not available Not available. **Autoignition** Lower explosion limit temperature Not available. Not available. Vapor Upper explosion limit pressure Not available. Not available. Water solubility Odor Partition coefficient: log Pow: 5.97 Not available. Odor n-octanol/water Threshold

Not available.

Evaporation rate

Section 10. Stability and Reactivity

Stable under recommended storage conditions. Stability

Strong oxidizing agents.

Materials To Avoid

Relative vapor density Not available.

Hazardous Other decomposition products - Not available.

Decomposition **Products**

Possibility of Not available. hazardous reactions

Conditions to avoid

Not available.

Section 11. Toxicological Information

Oral LD50 Not available. Skin - mouse.

corrosion/irritation Result: Mild skin irritation.

Inhalation LC50 Not available. Serious eye Not available.

damage/irritation

Respiratory or Chronic exposure may cause dermatitis. Dermal LD50 Not available.

skin sensitization

Germ cell mutagenicity May alter genetic material. In vivo tests Other information on Not available.

showed mutagenic effects. acute toxicity

Reproductive Toxicity May cause congenital malformation in the Aspiration Hazard Not available.

fetus. Presumed human reproductive toxicant.

May cause reproductive disorders.

Specific organ toxicity Not available. Synergistic effects Not available.

Specific organ toxicity Not available. Additional Information RTECS: DJ3675000

repeated exposure (GHS)

single exposure (GHS)

Teratogenicity Not available.

Signs and symptoms Burning sensation, cough, wheezing, laryngitis of exposure shortness of breath, headache, nausea, vomiting.

Potential Inhalation - May be harmful if inhaled. May cause respiratory irritation.

Health Effects
Skin - May be harmful if absorbed through skin. May cause an allergic skin reaction.
Eyes - May cause eye irritation. Ingestion - May be harmful if swallowed.
Germ Cell Mutagenicity - May cause genetic defects. Carcinogenicity - May cause cancer.
Reproductive toxicity - May damage fertility or the unborn child

Carcinogenicity Possible human carcinogen.

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

IARC: 1 - Group 1: Carcinogenic to humans (Benzo[a]pyrene).

NTP: Reasonably anticipated to be a human carcinogen (Benzo[a]pyrene).

OSHA: OSHA specifically regulated carcinogen (Benzo[a]pyrene).

Section 12. Ecological Information

Toxicity to daphnia and other aquatic

invertebrates: EC50 - Daphnia magna (Water flea) - 0.25 mg.

Toxicity to algae: EC50-Pseudokirchneriella subcapitata (green algae) - 0.02 mg/l - 72 h

Mobility in soil Not available.

PBT and vPvB PBT/vPvB assessment not available as assessment chemical safety assessment not required/not

conducted.

Persistence and degradability Not available.

Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

Bioaccumulative potential Bioaccumulation: Lepomis macrochirus (Bluegill) - 48h - 0.0005 mg/l, Bioconcentration factor (BCF): 3,208

Section 13. Disposal Considerations

Waste Disposal

Dispose of material according to all federal, state, and local regulations.

Offer material to a licensed, professional waste disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of as unused

Section 14. Transport Information

DOT (US) UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benzo[a]pyrene)

Reportable Quantity (RQ): 1lbs. Poison inhalation hazard: No

UN number: 3077

UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benzo[a]pyrene)

IMDG

UN number: 3077 Class: 9 Packing group: III EMS #: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benzo[a]pyrene)

Further Information EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packaging and combination packagings

containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

Section 15. Regulatory Information

Reach No.

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

The following components are subject to reporting levels established by SARA Title III, Section 313: SARA 313 Components

CAS #: 50-32-8 Benzo[a]pyrene Revision Date: 2007-03-01

SARA 311/312 Components Acute health hazard, chronic health hazard.

Massachusetts Right Benzo[a]pyrene CAS #: 50-32-8 Revision Date: 2007-03-01

To Know Components

Pennsylvania Right Benzo[a]pyrene CAS #: 50-32-8 Revision Date: 2007-03-01

To Know Components

New Jersey Right Benzo[a]pyrene CAS #: 50-32-8 Revision Date: 2007-03-01 **To Know Components**

California Prop 65 WARNING! This product contains a chemical known to the State of California to cause cancer.

Components Benzo[a]pyrene CAS #: 50-32-8 Revision Date: 1990-01-01

Section 16. Other Information

Other information

The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

Updated 6/7/2019

For emergencies in the USA, call CHEMTREC 800-424-9300