

MSDS

Material Safety Data Sheet

Date prepared: Sep 5, 2015

Date revised: N/A (first edition)

Section 1 - General Information

Chemical Name: Benzo[a]pyrene
CAS Reg. Number: 50-32-8
Catalog Number: 1ST4305
Manufacturer's Name: A Chemtek, Inc.
100 Barber Avenue
Worcester, MA 01606, USA

Telephone Number: 508-471-4121

Fax Number: 508-845-9201

For R & D use only

Section 2 - Hazardous Ingredients/Identity Information

Classification of the substance or mixture

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

Label elements

Pictogram	
Signal word	Danger
Hazard statement(s)	
H317	May cause an allergic skin reaction.
H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Section 3 - Composition/Information on Ingredients

Formula: C₂₀H₁₂
Molecular Weight: 252.31 g/mol
CAS-No. 50-32-8

Section 4 - First Aid Measures

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

Section 5 - Fire-Fighting Measures

Suitable extinguishing media

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

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 - Accidental Release Measures

Personal precautions

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

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 for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Storage

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: RT.

Section 8 - Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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).

Hand protection

For prolonged or repeated contact use protective gloves

Eye protection

Safety glasses

Hygiene measures

General industrial hygiene practice

Section 9 - Physical and Chemical Properties

Appearance:

Form solid
Color not available

Safety data

pH: not available
Melting point: not available
Boiling point: not available
Flash point: not available
Lower explosion limit: not available
Upper explosion limit: not available
Water solubility: not available

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Section 10 - Stability and Reactivity

Storage stability Stable under recommended storage conditions
Materials to avoid Strong oxidizing agents, Strong bases
Hazardous decomposition products Hazardous decomposition products formed under fire conditions.
- Carbon oxides.

Section 11 - Toxicological Information

Acute toxicity: not available
Irritation and corrosion: not available
Sensitization: not available
Respiratory or skin sensitization: not available

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Potential health effects

Inhalation: no data available
Skin: no data available
Eyes: no data available
Ingestion: no data available

Section 12 - Ecological Information

Elimination information (persistence and degradability)

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 0.25 mg/l - 48 h
Toxicity to algae EC50 - Pseudokirchneriella subcapitata (green algae) - 0.02 mg/l - 72 h
Ecotoxicity effects: not available
Further information on ecology: not available

Section 13 - Disposal Considerations

Product Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging Dispose of as unused product.

Section 14- Transport Information

DOT (US):

UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Benzo[a]pyrene)
Reportable Quantity (RQ): 1 lbs
Poison Inhalation Hazard: No

IMDG:

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benzo[a]pyrene)
Marine pollutant: yes

IATA:

UN number: 3077 Class: 9 Packing group: III

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

Section 15 - Regulatory Information

SARA 302 Components

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

SARA 313 Components

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

Benzo[a]pyrene CAS-No. 50-32-8 Revision Date 2007-03-01

Massachusetts Right To Know Components

Benzo[a]pyrene CAS-No. 50-32-8 Revision Date 2007-03-01

Pennsylvania Right To Know Components

Benzo[a]pyrene CAS-No. 50-32-8 Revision Date 2007-03-01

New Jersey Right To Know Components

Benzo[a]pyrene CAS-No. 50-32-8 Revision Date 2007-03-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 - Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. A Chemtek shall not be held liable for any damage resulting from handling or from contact with the above product.