

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 605.00

Revision Date: March 15, 2001

Section 1 — Chemical Product and Company Identification

Phthalic Anhydride

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Phthalic Anhydride

Synonym: 1,2-benzene dicarboxylic acid anhydride

CAS#: 85-44-9

Section 3 — Hazards Identification

White crystalline needles. Odorless.

Slightly toxic by ingestion and inhalation. Irritating to body tissues. Possible sensitizer. Avoid all body tissue contact.

FLINN AT-A-GLANCE

Health-1
Flammability-1
Reactivity-1
Exposure-1
Storage-0

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give 1 to 2 cups of water or milk, followed by a gastric antacid, such as milk of magnesia. Do not induce vomiting. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Combustible solid.

Flash Point: 305 F UEL: 10.4% LEL: 1.7% Autoignition Temperature: 1058 F

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

H-3
F-1
R-0

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn suggested chemical storage pattern: Organic #1. Store with acids, anhydrides and peracids.

Keep container tightly closed. Store in a cool dry place.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 2 ppm (OSHA)

Section 9 — Physical and Chemical Properties

White crystalline needles. Odorless.

Solubility: Soluble in alcohol, hot water and carbon disulfide.

Formula: C₈H₄O₃

Formula Weight: 148.12

Specific Gravity: 1.527

Melting Point: 131.16 C

Boiling Point: 284 C

Section 10 — Stability and Reactivity

Avoid contact with strong acids, strong bases, oxidizing agents and reducing agents.

Reacts vigorously with nitric acid and nitrating mixtures to produce potentially explosive products.

Shelf life: Poor; moisture sensitive.

Section 11 — Toxicological Information

Acute effects: Irritant

Chronic effects: Asthma

Target organs: N.A.

ORL-RAT LD50: 4020 mg/kg

IHL-RAT LC50: N.A.

SKN-RBT LD50: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

Section 12 — Ecological Information

Data not yet available.

Section 13 — Disposal Considerations

Please consult with state and local regulations.

Flinn Suggested Disposal Method #24a is one option.

Section 14 — Transport Information

Shipping Name: Not regulated

Hazard Class: N/A

UN Number: N/A

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (201-607-5), RCRA code U190.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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*Reduce Science Accidents--
Use Flinn Chemicals*

flinn@flinnsci.com www.flinnsci.com
P.O. Box 219 Batavia IL 60510
(800) 452-1261 Fax (866) 452-1436