

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 605.00

Revision Date: December 13, 2013

### 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

Signal Word **DANGER**

Pictograms



### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral and inhalation (Category 5). May be harmful if swallowed or inhaled (H303+H333).

Hazard class: Skin corrosion or irritation (Category 2). Causes skin irritation (H315).

Hazard class: Sensitization, skin and respiratory tract (Category 1). May cause an allergic skin reaction, allergy or asthma symptoms or breathing difficulties if inhaled (H317+H334). Avoid breathing dust or fumes (P261).

Hazard class: Serious eye damage or irritation (Category 1). Causes serious eye damage (H318).

Hazard class: Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3). May cause respiratory irritation (H335).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Phthalic Anhydride	85-44-9	C <sub>8</sub> H <sub>4</sub> O <sub>3</sub>	148.11	
Synonyms: 1,2-Benzene dicarboxylic acid anhydride; 1,2-Benzenedicarboxylic anhydride; PAN; Phthalic acid anhydride				

### SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310). **If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). **If experiencing respiratory symptoms:** Call a POISON CENTER or physician (P342+P311). **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing (P305+P351+P338). **If on skin:** Wash with plenty of water (P302+P352). **If skin irritation occurs:** Get medical advice or attention (P332+P313). Wash contaminated clothing before reuse (P363). **If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Class IIIB combustible solid.

Flash point: 152 °C Flammable limits: Lower: 1.7% Upper: 10.5% Autoignition Temperature: 570 °C

When heated to decomposition, may emit toxic fumes.

**In case of fire:** Use a tri-class dry chemical fire extinguisher.**NFPA CODE**

H-2

F-1

R-0

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Wipe up, place in sealed bag or container and dispose. Wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Organic #1. Store with acids, anhydrides and peracids. Keep container tightly closed (P233). Use only in a hood or in a well-ventilated area (P271).

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264). Use only in a hood or in a well-ventilated area (P271). In case of inadequate ventilation, wear respiratory protection (P285).

Exposure guidelines: PEL 2 ppm (OSHA) IDLH 60 mg/m<sup>3</sup> (OSHA) TLV 1 ppm (ACGIH) Sensitizer

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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White crystalline needles. Odorless.

Soluble: Alcohol, hot water and carbon disulfide.

Boiling point: 295 °C

Melting point: 130.8 °C

Specific gravity: 1.53

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**SECTION 10 — STABILITY AND REACTIVITY**

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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. See Section 7 for further information.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Eye, skin, and upper respiratory tract irritation; conjunctivitis; bronchitis, bronchial asthma; dermatitis. Sensitizer.

Chronic effects: Asthma

Target organs: Eyes, skin, and respiratory tract.

ORL-RAT LD<sub>50</sub>: 1530 mg/kg

IHL-RAT LC<sub>50</sub>: > 210 mg/m<sup>3</sup>

SKN-RBT LD<sub>50</sub>: > 10,000 mg/kg

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

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #24a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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

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**SECTION 16 — OTHER INFORMATION**

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.