



Section 1 – Company Information

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Collect Calls Accepted

Section 2 – Product Identification/ Information on Ingredients

PRODUCT NAME Benzoic Anhydride
CAS NUMBER 93-97-0
FORMULA $C_{14}H_{10}O_3$

Section 3 – Hazards Identification

Emergency Overview
WHMIS Classification
D2B Toxic Material Causing Other Toxic Effects

Moderate skin irritant
Moderate respiratory irritant
Moderate eye irritant

GHS Classification
Acute toxicity, Oral (Category 5)
Skin irritation (Category 2)
Serious eye damage (Category 1)
Specific target organ toxicity - single exposure (Category 3)

GHS Label Elements, including Precautionary Statements
Signal Word: Danger

Hazard Statement(s)
H303 May be harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Precautionary Statement(s)
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



HMIS Classification

Health: 2

Flammability: 1

Reactivity: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed.

Section 4 – First Aid Measures

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

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

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

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

Section 5 – Fire Fighting Measures

Conditions of Flammability: Not flammable or combustible.

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous Combustion Products: Hazardous decomposition products formed under fire conditions: carbon oxides.

Explosion Data - Sensitivity to Mechanical Impact: No data available

Explosion Data - Sensitivity to Static Discharge: No data available

Section 6 – Accidental Release Measures

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

Environmental Precautions: Do not let product enter drains.

Methods and Materials for Containment and Cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.



Section 7 – Handling & Storage

Precautions for Safe Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for Safe Storage: Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Moisture sensitive.

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 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).

Hand 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.

Eye 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 and 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.

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

Specific Engineering Controls: Use mechanical exhaust or laboratory fume hood to avoid exposure.

Section 9 – Physical & Chemical Properties

Appearance

Form: Crystalline

Color: Light yellow

Safety Data

pH: No data available

Melting Point/Range: 38 - 42°C (100 - 108°F)

Boiling Point: 360°C (680°F) at 1,013 hPa (760 mm Hg)

Flash Point: 113°C (235°F)

Ignition Temperature: No data available



Auto-ignition Temperature: No data available
Lower Explosion Limit: No data available
Upper Explosion Limit: No data available
Vapor Pressure: No data available
Density: 1.199 g/mL at 25°C (77°F)
Water Solubility: No data available
Partition Coefficient (n-Octanol/Water): No data available
Relative Vapor Density: No data available
Odor: No data available
Odor Threshold: No data available
Evaporation Rate: No data available

Section 10 – Stability & Reactivity Data

Chemical Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: No data available
Conditions to Avoid: No data available
Materials to Avoid: Strong acids, Strong oxidizing agents, Strong bases

Hazardous Decomposition Products

Hazardous Decomposition Products formed under Fire Conditions: Carbon oxides
Other Decomposition Products: No data available

Section 11 – Toxicological Information

Acute Toxicity

Oral LD50: No data available
Inhalation LC50: No data available
Dermal LD50: No data available
Other Information on Acute Toxicity: No data available
Skin Corrosion/Irritation: No data available
Serious Eye Damage/Eye Irritation: No data available
Respiratory or Skin Sensitization: No data available
Germ Cell Mutagenicity: No data available

Carcinogenicity

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.

Reproductive Toxicity: No data available
Teratogenicity: No data available



Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):

Inhalation - May cause respiratory irritation.

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System): No data available

Aspiration Hazard: No data available

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Synergistic Effects: No data available

Additional Information

RTECS: Not available

Section 12 – Ecological Information

Toxicity: No data available

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

PBT and vPvB Assessment: No data available

Other Adverse Effects: No data available

Section 13 – Disposal Consideration

Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14 – Transportation Data

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Section 15 – Regulatory Information

WHMIS Classification

D2B Toxic Material Causing Other Toxic Effects

Moderate skin irritant

Moderate respiratory irritant

Moderate eye irritant



Safety Data Sheet
(Benzoic Anhydride)

DATE PREPARED: 7/29/2014
REVISION NUMBER: 7/29/2014

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16 – Other Information

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

