

Material Safety Data Sheet

(p-Nitro Benzoyl Chloride)



415 Huguenot Street
New Rochelle, NY 10801
Phone: (914) 654-6800
Fax: (914) 654-6899

DATE PREPARED: 6/23/2209
REVISION NUMBER: 6/23/2009
EMERGENCY NUMBER:
CHEMTREC: 1-800-424-9300

SECTION 1 – PRODUCT AND COMPANY INFORMATION

PRODUCT NAME p-Nitro Benzoyl Chloride
SYNONYM 4-Nitrobenzoyl chloride
FORMULA C₇H₄ClNO₃
CAS NUMBER 122-04-3

SECTION 2 – COMPOSITON/INFORMATION ON INGREDIENTS

PRODUCT NAME	CAS NUMBER	PURITY
p-Nitro Benzoyl Chloride	122-04-3	100%

SECTION 3- HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Corrosive

Other hazards which do not result in classification

Lachrymator.

HMIS Classification

Health Hazard: 3
Flammability: 1
Physical hazards: 0

NFPA Rating

Health Hazard: 3
Fire: 1
Reactivity Hazard: 0

Potential Health Effects

Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin May be harmful if absorbed through skin. Causes skin burns.
Eyes Causes eye burns.
Ingestion May be harmful if swallowed. Causes burns.

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.

Material Safety Data Sheet

(p-Nitro Benzoyl Chloride)

If inhaled

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

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5 – FIRE FIGHTING MEASURES

Flammable properties

Flash point	102 °C (216 °F) - closed cup
Ignition temperature	no data available

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 fire fighting if necessary.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

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

SECTION 7- HANDLING AND STORAGE

Handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

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.

Material Safety Data Sheet

(p-Nitro Benzoyl Chloride)

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.

Eye protection

Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	crystalline
Colour	yellow

Safety data

pH	no data available
Melting point	71 - 74 °C (160 - 165 °F)
Boiling point	202 - 205 °C (396 - 401 °F) at 140 hPa (105 mmHg)
Flash point	102 °C (216 °F) - closed cup
Ignition temperature	no data available
Lower explosion	limit no data available
Upper explosion limit	no data available
Water solubility	no data available

SECTION 10 – STABILITY AND REACTIVITY DATA

Storage stability

Stable under recommended storage conditions.

Conditions to avoid

Avoid moisture.

Materials to avoid

Water, Alcohols, Oxidizing agents, Strong bases

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x), Hydrogen chloride gas

Material Safety Data Sheet

(p-Nitro Benzoyl Chloride)

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - 5,600 mg/kg

Remarks: Behavioral:Muscle weakness. Behavioral:Ataxia. Behavioral:Muscle contraction or spasticity.

Irritation and corrosion

no data available

Sensitisation

no data 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.

Reproductive toxicity - Mammal - Inhalation

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

Paternal

Effects: Testes, epididymis, sperm duct.

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Potential Health Effects

Inhalation

May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin

May be harmful if absorbed through skin. Causes skin burns.

Eyes

Causes eye burns.

Ingestion

May be harmful if swallowed. Causes burns.

Additional Information

RTECS: DM6651000

SECTION 12 – ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

Material Safety Data Sheet

(p-Nitro Benzoyl Chloride)

SECTION 13 – DISPOSAL CONSIDERATION

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14 - TRANSPORTATION DATA

DOT (US)

UN-Number: 3261 Class: 8 Packing group: II
Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (4-Nitrobenzoyl chloride)
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG

UN-Number: 3261 Class: 8 Packing group: II EMS-No: F-A, S-B
Proper shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-Nitrobenzoyl chloride)
Marine pollutant: No

IATA

UN-Number: 3261 Class: 8 Packing group: II
Proper shipping name: Corrosive solid, acidic, organic n.o.s. (4-Nitrobenzoyl chloride)

SECTION 15 – REGULATORY INFORMATION

OSHA Hazards

Corrosive

DSL Status

All components of this product are on the Canadian DSL list.

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

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

4-Nitrobenzoyl chloride CAS-No. 122-04-3 Revision Date

Material Safety Data Sheet

(p-Nitro Benzoyl Chloride)

New Jersey Right To Know Components

4-Nitrobenzoyl chloride CAS-No. 122-04-3

Revision Date

California Prop. 65 Components

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

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.