

MSDS

Material Safety Data Sheet

Date prepared: August, 29th, 2012

Date revised: N/A (first edition)

Section 1 - General Information

Chemical Name: 3,5-Dinitrobenzoic acid
Synonyms: NA
CAS Reg. Number: 99-34-3
Catalog Number: 1ST2701
Manufacturer's Name: Alta Scientific Co., Ltd.
Tianjin International Joint Academy of Biotechnology & Medicine, N1803
220 Dongting Road, TEDA, Tianjin 300457, P.R.China
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For R & D use only

Section 2 - Hazardous Ingredients/Identity Information

Emergency Overview


OSHA Hazards: Harmful by ingestion, Irritant
GHS Classification: Acute toxicity, Oral (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)
Chronic aquatic toxicity (Category 4)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn Harmful R22, R36/37/38

For the full text of the R-phrases mentioned in this Section, see Section 16.

GHS Label elements, including precautionary statements

	
Pictogram	
Signal word	Warning
Hazard statement(s)	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H413	May cause long lasting harmful effects to aquatic life.
Precautionary statement(s)	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: Harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.
Ingestion: Harmful if swallowed.

Section 3 - Composition/Information on Ingredients

Formula: C₇H₄N₂O₆
Molecular Weight: 212.12 g/mol
CAS-No. 99-34-3

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
EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
SKIN CONTACT: Wash off with soap and plenty of water. Consult a physician.
INHALATION: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

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INGESTION: 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 not available

Ignition temperature not 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 firefighting if necessary.

Section 6 - Accidental Release Measures

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

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

Section 7 - Handling and Storage

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.

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

Section 8 - Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values

Personal protective equipment

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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).

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
Color light yellow

Safety data

pH: 2.7
Melting point: Melting point/range: 204 - 206 °C (399 - 403 °F) - lit.
Boiling point: not available
Flash point: not available
Ignition temperature: not available
Lower explosion limit: not available
Upper explosion limit: not available
Water solubility: insoluble

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Section 10 - Stability and Reactivity

Storage stability Stable under recommended storage conditions
Materials to avoid Strong oxidizing agents, Acid chlorides, Acid anhydrides
Hazardous decomposition products Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx)

Section 11 - Toxicological Information

Acute toxicity:

Oral LD50

LD50 Oral - rat - 1,800 mg/kg

Inhalation LC50

Dermal LD50

Other information on acute toxicity

no data available

Irritation and corrosion: not available

Sensitization: not available

Respiratory or skin sensitization: not available

Chronic exposure 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, NTP, or OSHA.

Potential health effects

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

Skin: Harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Harmful if swallowed.

Section 12 - Ecological Information

Elimination information (persistence and degradability)

not available

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. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Section 14- Transport Information

DOT (US): Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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. Alta Scientific shall not be held liable for any damage resulting from handling or from contact with the above product.