

Material Safety Data Sheet

Date Created: 03/07/2009

Date Updated: 02/06/2010

Version: 1.0

Section 1 - Product And Company Information

Product Isophthalonitrile
Product No D031
Company Dynamic N.A. Inc
Address 23 Captains Walk, Milford, CT 06460, U.S.A.
Phone 1 914 965 2077
Fax 1 914 375 2093

Section 2 - Composition/Information On Ingredients

Synonyms 1,3-Dicyanobenzene; m-phthalodinitrile
CAS # 626-17-5
Formula C₈H₄N

Section 3 - Hazards Identification

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to Regulation (EC) No1272/2008

Acute toxicity, Inhalation (Category 4)

Acute toxicity, Oral (Category 4)

Eye irritation (Category 2)

According to European Directive 67/548/EEC as amended.

Harmful if swallowed.

Hazard statement(s)

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

Precautionary statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazard symbol(s)

Xn Harmful

R-phrase(s)

R22 Harmful if swallowed.

S-phrase(s)

S22 Do not breathe dust.

S24/25 Avoid contact with skin and eyes.

Section 4 - First Aid Measures

GENERAL ADVICE

Consult a physician. Show this safety data sheet to the doctor in attendance.

IF INHALED

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

IN CASE OF SKIN CONTACT

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

IN CASE OF EYE CONTACT

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

IF SWALLOWED

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

Section 5 - Fire Fighting Measures

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

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PERSONAL PRECAUTIONS

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

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

Section 7 - Handling and Storage

PRECAUTIONS FOR SAFE HANDLING

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

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

Section 8 - Exposure Controls / Personal Protection

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

HAND PROTECTION

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

EYE PROTECTION

Face shield and 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	White crystalline
pH	no data available
Melting point	163 - 165 °C - lit.
Boiling point	no data available
Flash point	no data available
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

CHEMICAL STABILITY

Stable under recommended storage conditions.

CONDITIONS TO AVOID

no data available

MATERIALS TO AVOID

Strong acids, Strong bases, Strong oxidizing agents, Strong reducing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Section 11 - Toxicological Information

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ACUTE TOXICITY

LD50 Oral - rat - 860 mg/kg

Remarks: Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Dyspnea.

Nutritional and Gross Metabolic:Changes in:Body temperature decrease.

LC50 Inhalation - rat - 1 h - > 8.970 mg/m3

LD50 Dermal - rabbit - > 2.000 mg/kg

SKIN CORROSION/IRRITATION

SERIOUS EYE DAMAGE/EYE IRRITATION

Eyes - rabbit - Mild eye irritation - 24 h

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.

POTENTIAL HEALTH EFFECTS

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ADDITIONAL INFORMATION

RTECS: CZ1900000

Section 12 - Ecological Information

No data available

Section 13 - Disposal Considerations

WASTE TREATMENT METHODS

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 - Transport Information

UN PROPER SHIPPING NAME

ADR/RID: 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. 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.