

## ACI SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identifier

Product Description: 1-(4-Nitro-phenyl)-cyclobutanecarbonitrile

Cat No: ACI-04641

CAS No: 1236409-69-0

#### Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Laboratory Chemicals

Uses advised against: No information available

#### Details of the supplier of the safety data sheet

##### Company

Advanced Chemical Intermediates Limited

The Old Dairy

Tresplatt

Davidstow

Cornwall

PL32 9YD

Tel: +44 (0) 1840 261451

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation toxicity – Dusts and mists	Category 4
Skin corrosion/irritation	Category 2
Serious Eye Damage/Eye irritation	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3

#### Label Elements



#### Signal Word

Warning

#### Hazard Statements

H302 – Harmful if swallowed

H315 – Causes skin irritation

H320 – Causes eye irritation

H335 – May cause respiratory irritation

#### Precautionary Statements – EU (S28, 1272/2008)

P261 – Avoid breathing dust/fumes/gas/mist/vapours/spray

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 – IF ON SKIN: Wash with plenty of water.

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

#### Other Hazards

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component: 1-(4-Nitro-phenyl)-cyclobutanecarbonitrile

CAS: 1236409-69-0

EC No:

### 4. FIRST AID MEASURES

#### Description of first aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes, Obtain medical attention
Skin Contact	wash off immediately with soap and plenty of water removing all contaminated clothes and shoes, Obtain medical attention
Ingestion	Clean mouth with water, Obtain medical attention
Inhalation	Remove from exposure, lie down. Move to fresh air if breathing is difficult, give oxygen if not breathing, give artificial respiration, Obtain medical attention

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

#### **Suitable Extinguishing Media**

Water spray Carbon dioxide (CO<sub>2</sub>) Dry chemical foam

#### **Extinguishing media which must not be used for safety reasons**

No information available

### Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapours

### Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

### Environmental precautions

Prevent further leakage or spillage if safe to do so

### Methods and material for containment and cleaning up

Sweep up or spillage and collect in suitable container for disposal. Use suitable absorbent if required. Do not let this chemical enter the environment

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapours or spray mist. Do not ingest

### Conditions for Safe Storage, including any incompatibilities

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Exposure limits	Not applicable
Derived No Effect Level (DNEL)	No information available
Predicted No Effect Concentration (PNEC)	No information available

### Exposure Controls

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to workstation location.

#### **Personal Protective Equipment**

1. Eye protection	Goggles
2. Hand protection	Protective gloves
3. Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure
4. Respiratory protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 OR European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene practice

#### **Environmental Exposure Controls**

No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	White
Boiling Point/Range	
Melting Point/Range	
Flash Point	
Molecular Formula	C <sub>11</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight	202.21

## 10. STABILITY AND REACTIVITY

### Reactivity

#### Chemical Stability

Stable under normal conditions

#### Possibility of Hazardous Reactions

Hazardous Polymerization	No information available
Hazardous Reactions	No information available

#### Conditions to Avoid

Incompatible products. Heat.

#### Incompatible Materials

Acids, bases, strong oxidizing agents, strong reducing agents,

#### Hazardous Decomposition Products

In combustion emits toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute Toxicity

#### Product Information

No acute toxicity information available for product

#### Component Information

#### Chronic Toxicity

#### Carcinogenicity

There are no known carcinogenic chemicals in product

#### Sensitization

No information available

#### Mutagenic Effects

No information available

#### Reproductive Effects

No information available

#### Developmental Effects

No information available

#### Target Organs

No information available

#### Other Adverse Effects

The toxicological properties have not been fully investigated

#### Endocrine Disruptor Information

None known

## 12. ECOLOGICAL INFORMATION

### Toxicity

#### Eco-toxicity Effects

Do not empty into drains

#### Persistence and Degradability

No information available

#### Bio-accumulative Potential

No information available

#### Mobility in Soil

No information available

#### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### Waste from Residues/Unused Products

Dispose of in accordance with local regulations

#### Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal

## 14. TRANSPORT INFORMATION

### IMDG/IMO

Not regulated

### ADR

Not regulated

### IATA

Not regulated

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations specific for the substance or the mixture

#### Chemical Safety Assessment

A Chemical safety assessment has not been carried out.

#### International Inventories

## 16. OTHER INFORMATION

#### Revision Date

18-Nov-2022

#### Version Number

1.0

#### Revision Summary

Not Applicable

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

### Disclaimer

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