SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier **Product Description:** Cat No: CAS No:

1-Benzyloxycarbonylazetidine-2-carboxylic acid ACI-NI-00312

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

Recommended Use: Uses advised against: 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

Laboratory Chemicals No information available

Classification of the substance or mixture

HAZARDS IDENTIFICAITON 2.

classification of the substance of 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 2A
Specific target organ systemic toxicity (single exposure)	Category 3

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

For the full text of the R phrases mentioned in theis section, see section 16 Symbol(s) Xn – Harmfull R - phrase(s) None **Risk Combination Phrases** R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed R36/37/38 - Irritating to eyes, respiratory system and skin

Label Elements



Signal Word

Warning

Hazard Statements H302 – Harmful if swallowed

H315 – Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H312 – Harmful in contact with skin

H335 – May cause respiratory irritation

Precautionary Statements - EU (S28, 1272/2008)

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

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray

P301 + P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P304 +P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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 CAS No:

EC No:

1-Benzyloxycarbonylazetidine-2-carboxylic acid

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 breathg, give artificial respiration, Obtain medical attention		

FIRE-FIGHTING MEASURES 5.

Extingquishing media

Suitable Extinguishing Media

Water spray Carbon dioxide (CO2) Dry chemical foam

Extinguishing media which ust 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.

ACCIDENTAL RELEASE MEASURES 6.

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 breath dust. Do not breath vapours or spray mist. Do not ingest Conditions for Safe Storage, including and incompatibilities

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

EXPOSURE CONTROLS/PERSONAL PROTECTION 8.

Control Parameters Exposure limits Derived No Effect Level (DNEL) **Predicted No Effect Concentration** (PNEC)

Not applicable No information available No information available

Goggles

Exposure Controls Engineering Measures

Personal Protective Equipment

- 1. Eye protection
- 2. Hand protection
- Skin and body protection 3.
- 4. **Respiratory protection**

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

Protective gloves Wear appropriate protective gloves and clothing to prevent skin exposure 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 Environmental Exposure Controls Handle in accordance with good industrial hygiene practice No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	LIQUID
Appearance	COLOURLESS OIL
Boiling Point/Range	-
Melting Point/Range	-
Flash Point	-
Molecular Formula	C12H13NO4
Molecular Weight	235.24

STABILITY AND REACTIVITY 10.

Reactivity

Chemical Stability Stable under normal conditions Possibility of Hazardous Reactions Hazardous Polymerization Hazardous Reactions **Conditions to Avoid** Incompatible products. Heat. **Incompatible Materials** Acids, bases, stong oxidizing agents, strong reducing agents, **Hazardous Decomposition Products** In combustion emits toxic fumes.

No information available No information available

TOXICOLOGICAL INFORMATION 11. Information on Toxicological Effects Acute Toxicity **Product Information** No acute toxicity information available for product **Component Information Chronic Toxicity** There are no known carcinogenic chemicals in product Carcinogenicity 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 ECOLOGICAL INFORMATION 12. Toxicity **Eco-toxicity Effects** Do not empty into drains Persistence and Degradability No information available **Bio-accumulative Potential** No information available No information available Mobility in Soil Other adverse effects No information available 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods Waste from Residues/Unsused Products **Contaminated Packaging**

Dispose of in accordance with local regulations Empty containers should be taken for local recycling, recovery or waste disposal

TRANSPORT INFORMATION 14.

IMDG/IMO Not regulated <u>ADR</u> Not regulated <u>IATA</u> Not regulated

15. REGULATORY INFORMATION

Saftey, health and environmental regulations specific for the substance or the mixture

Chemical Saftey Assesment

A Chemical safety assessment has not been carried out.

International Inventories

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2 – 3

 R20/21/22 – Harmful by inhalation, in contact with skin and if swallowed

 R36-37-38 – Irritating to eyes, respiratory system and skin

 Revision Date
 16-Nov-2010

 Revision Summary
 Not Applicable

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

Disclaimer

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