

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier**Product Description:****Cat No:****CAS No:****4-(3-Amino-propyl)-3-oxo-piperazine-1-carboxylic acid tert-butyl ester****ACI-00388****198896-21-8****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

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PL32 9YD

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Serious Eye Damage/Eye Irritation	Category 1B

Label Elements**Signal Word****Hazard Statements**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary Statements – EU (S28, 1272/2008)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

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

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340. IF INHALED: Remove person to fresh air and keep 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. P310 Immediately call a POISON CENTRE/doctor.

Other Hazards**Danger**

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component 4-(3-Amino-propyl)-3-oxo-piperazine-1-carboxylic acid tert-butyl ester**CAS No:** 198896-21-8**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

Do not induce vomiting Call a physician immediately

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 (CO2) Dry chemical foam

Extinguishing media which must not be used for safety reasons

No information available

Special hazards arising from the substance or mixture

Contact with water liberates toxic gas. Water reactive. Produce flammable gases on contact with water

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

Soak up with inert absorbent material (e.g. Sand, silica gel, acid binder, universal binder, sawdust) Keep in suitable and closed containers for disposal Wear self-contained breathing apparatus and protective suit. Do not expose spill to water.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not breath dust, do not breath vapours or spray mist. Do not get in eyes, on skin, or on clothing. Use only in area provided with appropriate exhaust ventilation. Do not allow contact with water because of violent reaction. Keep under nitrogen.

Conditions for Safe Storage, including and incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from moisture. Never allow product to get in contact with water during storage. Keep under nitrogen.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure limits

This product, as supplied does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

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
2. Hand protection
3. Skin and body protection
4. Respiratory protection

Goggles

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

Handle in accordance with good industrial hygiene practice

Environmental Exposure Controls

No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Pale yellow liquid/lms
Boiling Point/Range	
Melting Point/Range	-
Flash Point	-
Molecular Formula	C12H23N3O3
Molecular Weight	257.34

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, water

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**

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

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

UN-No	2735
Hazard class	8
Packing group	iii
Proper Shipping Name	

ADR

UN-No	2735
Hazard class	8
Packing group	iii
Proper Shipping Name	

IATA

UN-No	2735
Hazard Class	8
Packing Group	iii
Proper Shipping Name	

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**Legend**

TSCA – United States Toxic Substances Control Act section 8(b) Inventory
 EINECS/ELINCS – European inventory lists
 DSL/NDSL – Canadian domestic substances list/non domestic substances list
 PICCS – Philippines Inventory of chemicals and chemical substances
 ENCS – Japan existing and new chemical substances
 CHINA – China inventory of existing chemical substances
 AICS – Inventory of chemical substances
 KECL – Existing and evaluated chemical substances

16. OTHER INFORMATION

Revision Date

15-Feb-2023

Version Number

1.0

Revision Summary

Not Applicable

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

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.