1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Description: 4-Oxo-5,6,7,8-tetrahydro-4H-pyrazolo[1,5-a]azepine-2,5-dicarboxylic acid diethyl ester Cat No: ACI-01877 CAS No: 459157-17-6

Relevant identified uses of the substance or mixture and uses advised against Recommended Use: Laboratory Chemicals No information available

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

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

 ${\tt P280-Wear\ protective\ gloves/protective\ clothing/eye\ protection/face\ protection.}$

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: 4-Oxo-5,6,7,8-tetrahydro-4H-pyrazolo[1,5-a]azepine-2,5-dicarboxylic acid diethyl ester

459157-17-6 CAS:

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			

FIRE-FIGHTING MEASURES 5.

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

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	r Safe Handling	
Avoid contact v	with skin and eyes. Do not breathe	e dust. Do not breathe vapours or spray mist. Do not ingest
Conditions for	Safe Storage, including any incom	ipatibilities
Keep in a dry, c	cool and well-ventilated place. Kee	ep container tightly closed.
8.	EXPOSURE CONTROLS/PERSON	AL PROTECTION
Control Param	eters	
Exposure limits	5	Not applicable .
Derived No Eff	ect Level (DNEL)	No information available
Predicted No Effect Concentration		No information available
(PNEC)		
Exposure Cont	rols	
Engineering Measures		Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations
		and safety showers are close to workstation location.
Personal Prote	ctive 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 Environmental Exposure Controls

Handle in accordance with good industrial hygiene practice No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Beige
Boiling Point/Range	
Melting Point/Range	
Flash Point	
Molecular Formula	C14H18N2O5
Molecular Weight	294.31

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		
<u>Chronic Toxicity</u>		
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		

Waste from Residues/Unused Products Contaminated Packaging

Dispose of in accordance with local regulations 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
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Revision Date	25-Aug-2023	
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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