# SAFETY DATA SHEET

#### 1. PRODUCT AND COMPANY IDENTIFICATION **Product Identifier Product Description:** 3-Oxo-pyrrolidine-1,2-dicarboxylic acid 1-tert-butyl ester 2-ethyl ester ACI-NI-00461 Cat No: 170123-25-8 CAS No: 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 2A

Category 3

### Label Elements



Signal Word

Warning

Hazard Statements

H315 Causes skin irritation. H319 Causes serious eye irritation.

11315 Causes serious eye initiation.

H335 May cause respiratory irritation.

H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled.

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.

Specific target organ systemic toxicity (single exposure)

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301+312 IF SWALLOWED: Call a POISON CENTER/ doctor.

Other Hazards

No information available
3. COMPO

# COMPOSITION/INFORMATION ON INGREDIENTS

Component3-Oxo-pyrrolidine-1,2-dicarboxylic acid 1-tert-butyl ester 2-ethyl esterCAS No:170123-25-8EC No:170123-25-8

Γ	4.	FIRST AID MEASURES				
Descriptio	on of fir	st aid measures				
Eye Conta	ct	Rinse immedi attention	ately with plenty of water, also un	der the eyelids, for at least 15 minutes, Obtain medical		
Skin Conta	act			ater removing all contaminated clothes and shoes, Obtain		
Ingestion			with water, Obtain medical attent	ion		
Inhalation				h air if breathing is difficult, give oxygen if not breathing, give		
malation	•		ration, Obtain medical attention	n an it breathing is difficult, give oxygen it not breathing, give		
		FIRE-FIGHTING MEASURES				
Extinguish						
	-	shing Media				
•		on dioxide (CO2) Dry chemica				
-	-	dia which must not be used f	or safety reasons			
No informa						
Special has	zards a	rising from the substance or	<u>mixture</u>			
		osition can lead to release of i	rritating gases and vapours			
Advice for	r fire-fi≨	<u>shters</u>				
As in any <u>fi</u>	ire, we	ar self-contained breathing ap	paratus pressure-demand, MSHA,	/NIOSH (approved or equivalent) and full protective gear.		
	6.	ACCIDENTAL RELEASE MEASU	JRES			
Personal p	orecaut	ions, protective equipment a	nd emergency procedures			
Ensure ade	equate	ventilation				
Environme						
Prevent fu	irther le	eakage or spillage if safe to do	so			
Methods a	and ma	terial for containment and cl	eaning up			
				bsorbent if required. Do not let this chemical enter the		
environme		0	·	•		
Г	7.	HANDLING AND STORAGE				
Drecoution		afe Handling				
			h dust. Do not breath vapours or	spray mist. Do not ingost		
		fe Storage, including and inco		spray mist. Do not ingest		
		ol and well-ventilated place. k				
Keep in a u						
L		EXPOSURE CONTROLS/PERSO	DNAL PROTECTION			
Control Pa		ers				
Exposure l			Not applicable .			
		t Level (DNEL)		No information available		
Predicted No Effect Concentration			No information available			
(PNEC)						
Exposure (	Contro	<u>ls</u>				
Engineerin	ng Mea	sures	Ensure adequate ventilati	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations		
			and safety showers are cl	ose to workstation location.		
Personal P	Protect	ive Equipment				
	1. E	Eye protection	Goggles			
		land protection	Protective gloves			
	3. 9	Skin and body protection		tive gloves and clothing to prevent skin exposure		
		Respiratory protection	Follow the OSHA respirate	or regulations found in 29 CFR 1910.134 OR European Standard		
			EN 149. Use a NIOSH/MSH	HA or European Standard EN 149 approved respirator		
			if exposure limits are exce	eded or if irritation or other symptoms are experienced.		
Hygiene Measures			Handle in accordance wit	Handle in accordance with good industrial hygiene practice		
Environme	ental E	xposure Controls	No information available			
Γ	9.	PHYSICAL AND CHEMICAL PR	OPERTIES			
L						
	Dhuc!e-	l Stata		Liquid		
	Physica			Liquid		
	Appear			Colourless, viscous		
		Point/Range				
		; Point/Range				
F	Flash Po	pint				
Ν	Molecu	lar Formula		C12H19NO5		
N	Molecu	lar Weight		257.29		

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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					
	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 No information available					
Mobility in Soil						
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						
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	Revision Date 27-Feb-2020					
Version Number 1.2						

 Revision Summary
 Not Applicable

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

# **Disclaimer**

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