SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION **Product Identifier Product Description:** 4-Thiocarbamoyl-piperidine-1-carboxylic acid tert-butyl ester RH-05F-001 Cat No: 214834-18-1 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 HAZARDS IDENTIFICAITON 2. 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
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: 4-Thiocarbamoyl-piperidine-1-carboxylic acid tert-butyl ester 214834-18-1

Description of first aid	<u>measures</u>
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

5. FIRE-FIGHTING MEASURES

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.

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

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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
- 3. Skin and body protection
- 4. Respiratory protection

Hygiene Measures Environmental Exposure Controls 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.

Handle in accordance with good industrial hygiene practice No information available

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	SOLID
Appearance	WHITE SOLID
Boiling Point/Range	-
Melting Point/Range	132/134 c
Flash Point	-
Molecular Formula	C11H20N2O2S
Molecular Weight	244.36

10. STABILITY AND REACTIVITY

Reactivity

Chemical StabilityStable under normal conditionsPossibility of Hazardous ReactionsHazardous PolymerizationNo informalHazardous ReactionsNo informalConditions to AvoidIncompatible products. Heat.Incompatible MaterialsAcids, bases, stong oxidizing agents, strong reducing agents,Hazardous Decomposition ProductsIn combustion emits toxic fumes.

No information available No information available

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		
Exo-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/Unsused 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

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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