AK Scientific, Inc.

Safety Data Sheet (United States) (3R,4S)-Rel-1-tert-Butyl 3-ethyl 4-methylpyrrolidine-1,3-dicarboxylate

1.Identification	
Product name:	(3R,4S)-Rel-1-tert-Butyl 3-ethyl 4-methylpyrrolidine-1,3-dicarboxylate
Catalog#:	2974EC
IUPAČ name:	1-O-tert-butyl 3-O-ethyl (3R,4S)-4-methylpyrrolidine-1,3-dicarboxylate
Product use restrictions:	Only for research and development use by, or directly under the supervision
	of, a technically qualified individual.
Company:	AK Scientific, Inc.
	30023 Ahern Ave.
	Union City, CA 94587
Telephone:	(510) 429-8835
Fax:	(510) 429-8836
Website:	www.aksci.com
Emergency contact number	: 1-800-633-8253 United States & Canada
	1-801-629-0667 International

2.Hazard Identification:

GHS Classification (United States)

Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity - single exposure (Category 3), Respiratory system

Pictogram(s)



Signal word:

Warning

Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statement(s):

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove 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.
P312	Call a poison center or doctor if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS:

(3R,4S)-Rel-1-tert-Butyl 3-ethyl 4-methylpyrrolidine-1,3-dicarboxylate

None

3.Composition/Information on Ingredients

Synonyms:	cis-1-tert-butyl 3-ethyl 4-methylpyrrolidine-1,3-dicarboxylate;(3R,4S)-rel-1-tert-Butyl
	3-ethyl 4-methylpyrrolidine-1,3-dicarboxylate;(3R,4S)-1-tert-Butyl 3-ethyl
	4-methylpyrrolidine-1,3-dicarboxylate;ZINC211892749;AK171847
CAS#:	1788044-03-0
Purity:	95%
EC:	Not available.

4. First Aid Measures

General Information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

Skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

Eye contact: Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

Ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

Most important symptoms and effects, both acute and delayed: No further information available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam. Specific hazards arising from the chemical: Carbon oxides, Nitrogen oxides.

Advice for firefighters: As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

7. Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do

not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

Keep away from sources of ignition. ,Store long-term in a cool, dry place.

8. Exposure Controls/Personal Protection

Exposure limits:

OSHA PEL: Not available. NIOSH REL: Not available. ACGIH TLV: Not available.

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

Personal protection

Eyes: Hands: Skin and body:	Not Available. Not Available. Not Available.
Respiratory:	Not Available.
9. Physical and Chemical Properties	
Physical State: Molecular Formula:	Not available. C13H23NO4
Molecular Formula. Molecular Weight:	257.33
Odor:	Not available.
pH:	Not available.
Boiling Point Range:	Not available.
Freezing/Melting Point:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability(solid,gas):	Please see section 2.
Explosive limits:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Solubility:	Not available.
Relative Density:	Not available.
Refractive Index:	Not available.
Volatility:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Partition Coefficient:	Not available.
10 Stability and Depathylity	

10. Stability and Reactivity	
Reactivity:	Not available.
Chemical stability:	Stable under recommended temperatures and pressures.
Possibility of hazardous reactions:	Not available.
Conditions to avoid:	Dust generation.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon oxides, Nitrogen oxides.
11. Toxicological Information	

RTECS# Acute toxicity: Routes of exposure:

Not available. Not available. Inhalation,eye contact,skin contact,ingestion.

Symptoms related to the physical, chemical and toxicological characteristics:		chara bliste in ree may syste	Skin contact may result in inflammation characterized by itching, scaling, reddening, blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage. Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death.		
NTP: N OSHA: N Acute toxic effects: I				watering, and itching. Skin Idening, or, occasionally,	
12. Ecological Info	ormation				
Ecotoxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects:			Not available. Not available. Not available. Not available. Not available.		
13. Disposal Cons	siderations				
Disposal of waste: Disposal of packagin			Not listed Not listed		
14. Transportation	n Information				
DOT (United State UN number: Proper shipping name Transport hazard class Packing group: IATA	e:	Not a Not a	azardous mater vailable. vailable. vailable. vailable.	ial.	
UN Number: Proper shipping name: Transport hazard class: Packing group:		Not Not	Not dangerous good. Not available. Not available. Not available.		
15. Regulatory Inf	ormation				
TSCA (United Stat	tes)				
Not Available.					
NFPA Rating: Hea Flan		Not Available Health: Flammability: Instability:		Not available. Not available. Not available.	
16. Additional Info					
Davision Data: 02/06	(2022				

Revision Date: 03/06/2022 Printed Date: 03/11/2022

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