CI TCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	Revision number: 1	Revision date: 10/02/201
SECTION 1: Identification of the	e substance/mixture and of the company/undertaking	7
.1 Product identifiers		
Product name:	(R)-1-(tert-Butoxycarbonyl)-3-pyrrolidinol	
Product code:	B3054	
.2 Relevant identified uses of the s Identified uses:	substance or mixture and uses advised against Reagents.	
.3 Details of the supplier of the safe	ety data sheet	
Supplier:		
TCI EUROPE N.V.		
Boerenveldseweg 6		
Haven 1063		
B-2070 Zwijndrecht		
Telephone: +32(0)3 735 07 E-mail: sales-eu@tcichemic		
.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identificat	ion	
.1 Classification of the substance of		
Acute toxicity (Oral)	Category 4	
Acute toxicity (Dermal)	Category 4	
Acute toxicity (Inhalation)	Category 4	
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritatio	Category 2	
Serious eye damage/eye irritatio	Category 2	
Serious eye damage/eye irritation. 2 Label elements Pictograms or hazard symbols	Category 2 on Category 2	
Serious eye damage/eye irritation 2 Label elements Pictograms or hazard symbols Signal word	on Category 2 Category 2 Warning	skin or if inhaled
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SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	(R)-1-(tert-Butoxycarbonyl)-3-pyrrolidinol
Percent:	>98.0%(GC)
CAS RN:	109431-87-0
Synonyms:	(R)-1-(tert-Butoxycarbonyl)-3-hydroxypyrrolidine,(R)-1-Boc-3-hydroxypyrrolidine, (R)-1-Boc-3-pyrrolidinol
Chemical Formula:	C9H17NO3

SECTION 4: First aid measures

4.1 Description of first aid measures	
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed No data available

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION E. Firstighting massures		
SECTION 5: Firefighting measures 5.1 Extinguishing media		
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.	
5.2 Special hazards arising from the substance or mixture	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)	
5.3 Advice for firefighters	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment	
SECTION 6: Accidental release mea	asures	
6.1 Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc	
6.2 Environmental precautions	Prevent product from entering drains	
6.3 Methods and materials for containment and cleaning up	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.	
6.4 Reference to other sections	For disposal see section 13.	
SECTION 7: Handling and storage		
7.1 Precautions for safe handling	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.	
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents.	
7.3 Specific end use(s)	No further relevant information available.	

SECTION 8: Exposure controls/personal protection	
B.1 Control parameters No data available	
8.2 Exposure controls	Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.
Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Dust respirator. Follow local and national regulations. Protective gloves. Safety glasses. A face-shield, if the situation requires. Protective clothing. Protective boots, if the situation requires.

SECTION 9: Physical and chemical properties

9.1	Information on basic physical and cl	nemical properties
	Physical state (20°C):	Solid
	Form:	Crystal - Powder
	Colour:	White - Very pale yellow
	Odour:	No data available
	pH:	No data available
	Melting point/freezing point:	61°C
	Boiling point/range:	No data available
	Flash point:	No data available
	Evaporation rate(Butyl Acetate=1):	No data available
	Flammability(solid, gas):	No data available
	Flammability or explosive limits:	
	Lower:	No data available
	Upper:	No data available
	Vapour pressure:	No data available.
	Vapour density:	No data available
	Relative density:	No data available
	Solubility(ies):	
	[Water]	No data available
	[Other solvents]	
	Soluble:	Methanol
	Partition coefficient:	No data available
	n-octanol/water:	
	Autoignition temperature:	No data available
	Decomposition temperature:	No data available
	Dynamic Viscosity:	No data available
	Kinematic viscosity:	No data available
9.2	Other safety information	No data available

	Nada
SECTION 10: Stability and r	eactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under proper conditions.
10.3 Possibility of hazardous reactions	No special reactivity has been reported.
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available

SECTION 12: Ecological information

12.1 Toxicity	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³ /mol):	No data available
12.5 Results of PBT and vPvB assessme	ent
PBT:	Not applicable
vPvB:	Not applicable

12.6 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

No data available

SECTION 14: Transport information		
14.1 UN number	Not listed	
14.2 UN proper shipping name		
ADR/RID	Not listed	
IMDG/IMO	Not listed	
ICAO/IATA	Not listed	
14.3 Transport hazard class(es)		
ADR/RID	Does not correspond to the classification standard of the United Nations	
IMDG/IMO	Does not correspond to the classification standard of the United Nations	
ICAO/IATA	Does not correspond to the classification standard of the United Nations	
14.4 Packaging group		
ADR/RID	-	
IMDG/IMO	-	
ICAO/IATA	-	
14.5 Environmental hazards		
Marine pollutant	-	
14.6 Special precautions for user	No data available	

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	olidinol	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Substance of Very High Concern (SVHC) according to the Not listed REACH Regulations (EC) No.1907/2006

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information		
Prepared by:	TCI EUROPE N.V.	
Issue date:	10/02/2018	

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet