

Safety Data Sheet per OSHA HazCom 2012



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## Product name: (3S)-(-)-3-Acetamidopyrrolidine

Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eve damage Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Advice for firefighters

**Protective equipment:** Wear self-contained respirator. Wear fully protective impervious suit.

### 6 Accidental release measures

## Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### 7 Handling and storage

Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known.

### Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters

Components with limit values that require monitoring at the workplace: Not required. Additional information: No data

Exposure controls

Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. **Breathing equipment:** Use suitable respirator when high concentrations are present. **Protection of hands:** Impervious gloves Impervious gloves prior to each use for their proper condition. Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Protection: Protection: Tightly sealed goggles** 

Tightly sealed goggles Full face protection

Body protection: Protective work clothing.

## 9 Physical and chemical properties

Information on basic physical and General Information Appearance: Form: Color:	Solid White Pale brown	
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range:	52-57 °C (126-135 °F)	
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# Product name: (3S)-(-)-3-Acetamidopyrrolidine

Product name: (3S)-(-)-3-Acetamido	byrrolidine	
		(Contd. of page 2)
Boiling point/Boiling range: Sublimation temperature / start:	70-72 °C (158-162 °F) (40 mmHg) Not determined	
Flash point:	Not applicable	
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable.	
Density: Relative density	Not determined Not determined	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water: Partition coefficient (n-octanol/water)	Soluble : Not determined.	
Viscosity: dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
ouler mormation		
10 Stability and reactivity		
Reactivity No information known.	nended storage conditions	
Thermal decomposition / conditions t Possibility of hazardous reactions No	nended storage conditions. <b>o be avoided:</b> Decomposition will not occur if used and stored according to specifications. dependents reactions (neuron	
<b>Conditions to avoid</b> No further relevant	t information available.	
Incompatible materials: Oxidizing ager Hazardous decomposition products:	Its	
Carbon monoxide and carbon dioxide Nitrogen oxides		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: Swallowing will lead to a LD/LC50 values that are relevant for o	a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.	
Skin irritation or corrosion: Causes se	evere skin burns.	
Eye irritation or corrosion: Causes set Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	nous eye damage. own.	
<b>Carcinogenicity:</b> No classification data	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know Specific target organ system toxicity	n. - repeated exposure: No effects known.	
Specific target organ system toxicity Aspiration hazard: No effects known.	- repeated exposure: No effects known. - single exposure: No effects known.	
Subacute to chronic toxicity: No effec	ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
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12 Ecological information		
Toxicity Aquatic toxicity: No further relevant inf	ormation available.	
Persistence and degradability No furth Bioaccumulative potential No further r	ner relevant information available. elevant information available.	
Mobility in soil No further relevant infor Additional ecological information:	mation available.	
General notes:	he environment without proper governmental permits	
Do not allow undiluted product or large of Avoid transfer into the environment.	he environment without proper governmental permits. Juantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessment	t	
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further releva	ant information available.	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local of	or national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be m		
Recommended cleansing agent: Wate	er, if necessary with cleansing agents.	
14 Transport information		
UN-Number	10/00220	
DOT, IMDG, IATA UN proper shipping name	UN3259	
DOT	Amines, solid, corrosive, n.o.s. ((3S)-(-)-3-Acetamidopyrrolidine) AMINES, SOLID, CORROSIVE, N.O.S. ((3S)-(-)-3-Acetamidopyrr	olidino)
IMDG, IATA	AMINES, SOLID, CORROSIVE, N.O.S. ((35)-(-)-3-Acetamidopyin	(Contd. on page 4)
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Product name: (3S)-(-)-3-Acetamidopyrrolidine	
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Transport hazard class(es)	
DOT	
Class	8 Corrosive substances.
Label Class	8
Label	8 (C8) Corrosive substances 8
IMDG, IATA	
Class	8 Corrosive substances.
Label Packing group	8
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user Segregation groups	Warning: Corrosive substances Alkalis
Transport in bulk according to Annex II of MARPOL73/78	and the IBC Code Not applicable.
Transport/Additional information: DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN3259, Amines, solid, corrosive, n.o.s. ((3S)-(-)-3-Acetamidopyrrolidine), 8, III
P405 Store locked up. P501 Dispose of contents/container in accordant National regulations This product is not listed in the U.S. Environmental Protection to research and development only. This product must be used product must not be used for commercial purposes or in formut SARA Section 313 (specific toxic chemical listings) Substa California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is l	ance is not listed.
Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not I Prop 65 - Developmental toxicity, male Substance is not lis Information about limitation of use: For use only by technic Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the The conditions of restrictions according to Article 67 and	listed
Prop 65 - Developmental toxicity male Substance is not lis	listed. ted. ally qualified individuals. REACH Regulations (EC) No. 1907/2006. Substance is not listed. Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the ation for use) Substance is not listed.