

Safety Data Sheet per OSHA HazCom 2012

1	1 Identification	
	Product identifier Product name: (S)-(-)-1-Benzyl-3-acetamidopyrrolidine	
	Stock number: L19689 CAS Number: 114636-30-5 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
	Details of the supplier of the safety data sheet	
	Manufacturer/Supplier: Alfa Aesar	
	Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com	
	Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-	0789.
2	Plazard(s) identification	
2	Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.	
	Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable	
	Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system	
	HMIS ratings (scale 0-4)         (Hazardous Materials Identification System)         HEALTH       I         HEALTH       I         HEALTH       I         Flammability = 1	
	REACTIVITY 1 Physical Hazard = 1	
	Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3	3 Composition/information on ingredients	
	Chemical characterization: Substances CAS# Description: 114636-30-5 (S)-(-)-1-Benzyl-3-acetamidopyrrolidine	
4	1 First-aid measures	
	Description of first aid measures After inhalation Supply fractions in it required provide artificial respiration. Keep patient worm	
	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact	
	Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
	After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
	Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5	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	
	Advice for inferignents Protective equipment: Wear self-contained respirator.	
	Wear fully protective impervious suit.	
6	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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: Pick up mechanically. 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.	(Contd. on page 2)

# Product name: (S)-(-)-1-Benzyl-3-acetamidopyrrolidine

See Section 13 for disposal information.

## 7 Handling and storage

Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. 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: Refrigerate Information about storage in one common storage facility: Store away from air. Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Refrigerate

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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment

General 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. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands:

Protection of hands: Impervious gloves 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. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing.

### 9 Physical and chemical properties

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Information on basic physical and che General Information Appearance: Form:	Powder				
Color:	Pale cream				
Odor:	Not determined				
Odor threshold:	Not determined.				
	Not determined.				
pH-value:	Not applicable.				
Change in condition					
Melting point/Melting range:	44-46 °C (111-115 °F)				
Boiling point/Boiling range:	Not determined				
Sublimation tomporature / atort					
Sublimation temperature / start:	Not determined				
Flammability (solid, gaseous)	Not determined.				
Ignition temperature:	Not determined				
Decomposition temperature:	Not determined				
Auto igniting:	Not determined.				
Danger of explosion: Explosion limits:	Not determined.				
Lower:	Not determined				
Upper:	Not determined				
	Not determined				
Vapor pressure:	Not applicable.				
Density:	Not determined				
Relative density	Not determined.				
Vapor density	Not applicable.				
Evaporation rate	Not applicable.				
Solubility in / Miscibility with					
Water:	Not determined				
Partition coefficient (n-octanol/water):					
Viscosity:					
dynamic:	Not applicable.				
kinematic:					
	Not applicable.				
Other information	No further relevant information available.				
10 Ctability and reactivity					

# 10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents

Conditions to avoid No further relevant information available.

(Contd. on page 3)

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Information on toxicological effects         Addition of the effects form.         Second Seco	11 Toxicological information					
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Shen infration or corrosofts from the gauge infration generation generation of the sector of the sec	Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data					
Sensitization: Vo. sensitizing effects known: Gurantogenetic No labor incompanies of properties of this material is available from the EPA, IARC, NTP, OSHA or ACGH. Reproductive Concern, No allocits known: Application Reserved Reproduction Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Additional Exercision, No effects from: Additional Exercision Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Additional Exercision, No effects from: Additional Exercision, No effects from: Additiona	Skin irritation or corrosion: May cause irritation					
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Reproductive toxicity: No christs known, meaned exposure: No effects known. Specific targe group system toxicity: - shife exposure: No effects known. Application Reard: No effects known Application Could Physics Reard: No effects known Reard: No	<b>Germ cell mutagenicity:</b> No effects known. <b>Carcinogenicity:</b> No classification data on carcinogenic properties of this ma	aterial is available from the EPA, IARC, NTP, OSHA or ACGIH.				
Specific argin organ system toolog: a single exposure: No effects known. Subacult to formic toolicit: No ends known. Additional toolcological information: Toolog: Decision of the provide state of the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Technolog: Specific argin of the provide state of our knowledge the acute and chronic toxicity of this substance is not fully known. Technolog: Specific argin of the provide state of our knowledge the acute and chronic toxicity of this substance is not fully known. Technolog: Specific argin of the provide state of the	Specific target organ system toxicity - repeated exposure: No effects kno	own.				
Subseque to chronic toxicity: No effects known: Additional toxicological information Toxicity Aquete toxicity: No further relevant information available Presistence and degraduality in the Uniter relevant information available Presistence and degraduality in the Uniter relevant information available Additional toxicity: No further relevant information available Additional toxicity: No further relevant information available Additional toxicity: No further relevant information available Additional toxicity in soft No Uniter relevant information available Additional toxicity in soft No Uniter relevant information available Additional toxicity in soft No Uniter relevant information available Toxicity Do not allow unditated product or large quantities to reach ground water, water course or sewage system. Additional toxicity in the toxicity of the sessment PET. Not applicable Other water softwart information available. Toxicity Disposal considerations Waste treatment methods Recommendation: Disposal considerations Do not adverse affects No further relevant information available. 11 Transport information UV proper shipping name DO not, ADN, MIDG, IATA Not applicable DO not ADN, MIDG, IATA Not applicable DO not ADN, MIDG, IATA Not applicable DO not ADN, MIDG, IATA Transport hazard class(es) DO not ADN, MIDG, IATA Transport information DO not ADN, MIDG, IATA Transport information DO not ADN, MIDG, IATA Transport Madtitional I	Specific target organ system toxicity - single exposure: No effects known	Specific target organ system toxicity - single exposure: No effects known.				
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UN rooper shipping name         Not applicable           DOT, ADN, IMDG, IATA         Not applicable           Class         Not applicable           Packing group         Not applicable           Special precautions for user         Not applicable.           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":         -           115 Regulatory information         Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable           Signal word Not applicable         -           Hazard statements Not applicable         Hazard statements Not applicable           Hazard statements Not applicable         Substance Sontrol Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This group of the Canadian Non-Domestic Substances List (NDSL).           SARA Section 313 (specific toxic chemical listings) Substance is not listed.		Not applicable				
Transport hazard class(es)       DOT, ADR, ADN, IMDG, IATA         Class       Not applicable         Packing group       DOT, IMDS, IATA         DOT, JMDS, IATA       Not applicable         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         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":       -         15 Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable         Hazard pictograms Not applicable       Hazard statements Not applicable         Hazard statements Not applicable       Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product is not listed on the Canadian Domestic Substance is not listed.         Calatoria in Proposition 65       Gause cancer Substance is not listed.	UN proper shipping name					
DOT, ADR, ADN, IMDG, IATA       Not applicable         Packing group       Not applicable         Packing group       Not applicable         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         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":       -         15 Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable         Signal word Not applicable       -         15 Regulatory information       -         Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable         Hazard pictograms Not applicable       -         Hazard pictograms Not applicable       -         Matter regulations       -         This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and copyrement only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This or protect is not listed.         Prop 65 - Developmental toxicity Substances is not listed.       Prop 65 - Developmental toxici		Not applicable				
Class       Not applicable         Packing group DOT, IMDG, IATA       Not applicable         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Image: Code Not applicable.         Transport/Additional information:       DOT         DOT       Marine Pollutant (DOT):       No         UN * Model Regulation*:       -         15 Regulatory information       -         Safety, health and environmental regulations/legislation specific for the substance or mixture       GHS label elements Not applicable         Hazard statements Not applicable       -       -         Mation Regulations       This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product inst not be used of commercial purposes.       -         This product must not be used of commercial substances last (DSL) or the Canadian Non-Domestic Substances List (NDSL).       Sefformia Proposition 65         Afformia Proposition 65       -       -       -         Mation 2005       -       -       -         Mation 10 to use and listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical S						
DOT, IMDG, IATA         Not applicable           Environmental hazards:         Not applicable.           Special precautions for user         Not applicable.           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":         -           15 Regulatory information         -           Safety, health and environmental regulations/legislation specific for the substance or mixture         GHS label elements Not applicable           Hazard pictograms Not applicable         -           Safety, health and environmental regulations/legislation specific for the substance or mixture         GHS label elements Not applicable           Hazard statements Not applicable         -         -           Safety, health and environmental regulations/legislation specific for the substance or mixture         GHS label elements Not applicable           Hazard statements Not applicable         -         -           Mational regulations         -         -           This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product is not listed on the Canadian Domestic	Class	Not applicable				
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Transport/Additional information:       DOT         Marine Pollutant (DOT):       No         UN "Model Regulation":       -         15 Regulatory information       -         Safety, health and environmental regulations/legislation specific for the substance or mixture       -         GHS Tabel elements Not applicable       -         Hazard pictograms Not applicable       -         Hazard statements Not applicable       -         Hazard statements Not applicable       -         Mational regulations       -         This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.         This product is not listed on the Canadian Domestic Substance Is to listed.         Prop 63 - Chemicals known to cause cancer Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, temale Substance is not listed.         Prop 65 - Developmental toxicity, temale Substance is not listed.         Prop 65 - Developmental toxicity, temale Substance is not listed.      <						
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(Contd. on page 4) USA	Substance of Very High Concern (SVHC) according to the REACH Regu	lations (EC) No. 1907/2006. Substance is not listed.				
			(Contd. on page 4)			

# Product name: (S)-(-)-1-Benzyl-3-acetamidopyrrolidine

(Contd. of page 3) The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent LD50: Lethal concentration of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA