

SAFETY DATA SHEET

Revision Date 04/16/2024

Product name :: Boc-Ala-OH Product name :: Boc-Ala-OH Product Number :: BA2100 Brand :: Advanced ChemTech CAS-No. Cas-No. Description of the support of the safety data sheet Company :: Advanced ChemTech Solid Ferr Volky Rd, Lousville, KY 40228 USA Telephone :: 1 833-317.4500 Ferr Product ChemTech Solid Ferr Volky Rd, Lousville, KY 40228 USA Telephone :: 1 833-317.4500 Cas-No. Cas-No. Cas-No. Cas-No. Cas-No. Cas-No. Cas-No. Cas-No. Cas-No. Cas-No. Company :: Advanced ChemTech Solid Ferr Volky Rd, Lousville, KY 40228 USA Telephone :: 1 800-424-8300 ChemTech Cas-No. Cas-No. Cas-No. Cas-No. Cas-No. Cas-No. ComPosition/NorCoMATION NINGEDIENTS Substances Synonyme :: Boc-L-alanine Formula :: Not Anazardous substance or mixture: ComPosition/NorCoMATION NINGEDIENTS Substances Synonyme :: Boc-L-alanine Formula :: Not Anazardous substance or mixture: ComPosition/NorCoMATION NINGEDIENTS Substances Synonyme :: Boc-L-alanine Formula :: Not Ala-Cas-No. No ingredients are hazardou secording to CasHo. Note: 15761-38-3 No ingredients are hazardous secording to CasHo. No components meet to be disclosed according to the applicable regulations. No components meet to be disclosed according to the applicable regulations. No components meet to be disclosed according to the applicable regulations. No ingredients are hazardous according to DSHA criteria. No components meet to be disclosed according to the applicable regulations. No ingredients are hazardous and physician. In cases of sinc ondict: Massi of Mix Notice Consult applysician. In cases of sinc ondict: Massi of Mix Notice Consult applysician. In cases of sinc ondict: Massi of Mix Notice M			TIFICATION			
Product Number Produ	1.1					
Brand :: 13761-38-3 Relevant Identified uses of the substance or mixture and uses advised against Identified toxes						
CAS-No. ::1767-138-3 Relevant identified uses or mixture and uses advised against identified uses i:Laboratory chemicals, Manufacture of substances. Database of the substance or mixture and uses advised against Company ::5000 Fem Valley Rd, Louiaville, KY 40228 USA Telephone ::18337-5500 Fax ::14337-5500 Fax ::1432-43900 Chemtec HZAROSS IDENTIFICATION Classification of the substance or mixture: Not a hazardous substance or mixture. CGHS Label elements, including precautionary statements: Not a hazardous substance or mixture. CGMPOSTICMINFORMATION ON INGREDIENTS CGMPOSTICMINFORMATION ADD						
 Relevant Identified uses of the substance or mixture and uses advised against Identified uses Laboratory chemicals, Maundature of substances. Details of the supplier of the safety data sheet Company Advanced Chem Tech 						
Identified uses :: Laboratory chemicals, Manufacture of substances. Organy :: Advanced Chemitech Company :: Advanced Chemitech 6508 Fer Nulser, RR, Louisville, KY 40228 USA Fer proposed in the substance or mixture. Identified uses :: 1820-187-6000 Fer proposed telephone number :: 1820-187-6000 Cale :: 1820-187-6000 Substances Synonyme :: 1800-1-clanine Formula :: Cale :: 1827-197-600 No components need to be disclosed according to Cale :: 1827-197-600 No components need to be disclosed according to Cale :: 1827-197-600 No components need to be disclosed according to Cale :: 1827-197-600 No components need to be disclosed according to Cale :: 1827-197-600 No components need to be disclosed according to Cale :: 1827-197-600 No components need to be disclosed according to Cale :: 1827-197-600 No components need to be disclosed according to Cale :: 1827-197-600 No components need to be disclosed according to Water: Cane :: 187-187-187-187-187-187-187-187-187-187-	•					
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Company Advanced Chem Tech 5605 Periv Valley Rd, Louisville, KY 40228 USA Telephone Fax Telephone H 1833-317-5620 Fax Company H 1833-317-5620 Chem H 1833-117-5620 Chem H 1833-117-562 Chem H 1833-117-563 Chem H 1833-117-56 Chem H 1833-117-56 Chem H 1833-117-56 Chem H 1833-117-56 Chem	•					
5609 Fen Valley Rd, Louisville, KY 40228 USA Telephone ::+1 502-488-1000 Fax ::+1 502-488-1000 IMACADS IDENTIFICATION :: Classification of the substance or mixture: Not a hazardous substance or mixture. :: Classification of the substance or mixture: Not a hazardous substance or mixture. :: :: Hazardou :: :: Hazardou :: :: Classified (HOO) or not covered by GHS – none :: :: Substances :: :: :: Substances :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::	.3					
Telephone :+1 833-317-5620 Fax :+1 802-086-1000 IA Emergency telephone number: :+1 800-424-9300 Chemtroc :HAZAROS DECHTICATION Classification of the substance or mixture: Not a hazardous substance or mixture. :HAZAROS DECOSTICOMINFORMATION ON INGREDIENTS Chasardous substance or mixture. :Substances Synonyms :Sourcestication :BocL-alanine :Final :Colf-OSTITOMINFORMATION ON INGREDIENTS :Substances :Synonyms :Synonyms :BocL-alanine :Final :Colf-Sintian :COMPOSITIOMINFORMATION ON INGREDIENTS :Substances :Synonyms :Synonyms :BocL-alanine :Final :Colf-Sintian :COMPOSITIOMINFORMATION :Colf-Sintian :Colf :Sintian :Substance :Synonyms :BocL-alanine :Colf :Sintian :Substance :Synonyms :Substance :Sintian :Colf :Sintian :Colf :Sintian :Sintian :Colf :Sintian :Sintian :Sintian :Sintian :Sintian :Sintian :Sintian <td></td> <td>Company</td> <td></td>		Company				
Fax' ::+1 502-968-1000 Emergency telephone number :+1 800-242-9300 CHAZARDS IDENTIFICATION Classification of the substance or mixture: Not a hazardous substance or mixture. CH45 Labol elements, Including procession or covered by GHS – none Coverestimation of the substance or mixture: Not a hazardous substance or mixture. CH45 Labol elements, Including procession or covered by GHS – none Coverestimation of the substance or mixture: Not a hazardous substance or mixture. COMPOSITIONINFORMATION ON INGREDIENTS Substances NoticeLian Weight ::::::::::::::::::::::::::::::::::::		Talankana				
14 Emergency telephone number :+1800-424-9300 Chemitre 2: HAZARDS IDENTIFICATION Classified (MOC) or not covered by GNB - none 2: GMP Control on the substance or mixture: Not a hazardous substance or mixture. Classified (MOC) or not covered by GNB - none 2: GMP Control ON INGECEIENTS Substances Substances 3: Substances Bock-Jalania Not the Hazardous substance or mixture. 4: Substances Substances Not the Hazardous according to the applicable regulations. 5: Components need to be disclosed according to the applicable regulations. Not components need to be disclosed according to the applicable regulations. 6: FIRST AID MEASURES Substances Finate Hazardous according to the applicable regulations. 1: FIRST AID MEASURES Substances Finate Hazardous according to the applicable regulations. 1: FIRST AID MEASURES Substance of sint contact. Waan of Whis safety data sheet to the doctor in attendance. If Inhade: fibreathed in, move person into fresh ait. finot foreathing, give artificiant a physician. In case of sint contact. Waan of Whis safety data sheets to the doctor in attendance. 1: Mocation of any Immediate medical attention and special treatment neoder. No case available. Streatments. Not available. 3: FIREFIGHTING MEASURES Streatments. Not available apparatus for finefighting in accesary. 4: Advice for fi		•				
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 Substances Synonyms EbocL-alanine N-(tert-Butoxycarbonyl)-L-alanine Formula C4HeNO Molecular Weight 189.21 g/mole CAS-No. E159.21 g/mole CAS-No. CAS-No. E159.21 g/mole CAS-DE159.21 g/mole E159.21 g/mole E159.21 g/mole E159.21 g/mole E159.21 g/mole E159.21 g/mole E159.21 g/mole	2.3					
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Formula : CHI-B/O, Molecular Weight :: 189.21g/mole CAS-No. :: 15761-38-3 No ingredients are hazardous according to DSHA criteria. No components need to be disclosed according to the applicable regulations. FIRST AID MEASURES Secription of first aid measures General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled: If breaked in, move person into firsh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact: Wash off with scap and plenty of water. Consult a physician. In case of skin contact: Wash off with scap and plenty of water. Consult a physician. Most important symptoms and effects, both accute and delayed: The most important known symptoms and effects, both accute and delayed: Indication of any immediate medical attention and special treatment needed: No data available. FIREFIGHTING MEASURES Stribule extinguishing media: Suitable extinguishing media: Use available Suitable extinguishing media: Stribule extinguishing media: Suitable extinguishing media: Stribule extinguishing media: Suitable extinguishing media: Stribule extinguishing media: Suitable extinguishing not the substance or mixture: Carbon xites (NOX) <td></td> <td>Synonyms</td> <td>: Boc-L-alanine</td>		Synonyms	: Boc-L-alanine			
Molecular Weight : 199.21g/mole CAS-No :: 15761-38-3 No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations. In Case Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact: Wash off with scap and plenty of water. Consult a physician. If sealloweit Newer give anything by mouth to a nuconscious person. Rinse mouth with water. Consult a physician. Is a contact: a physician. If contact in going off in the substance or mixture: Carbon oxides, hitrogen oxides (NOA) 3.3 Indicator of any immediate medical attention and special treatment needed: No data available. 5.7 FIREFIGHTING MEASURES 5.1 Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. 5.2 Special hazards arising from the substance or mixture: Carbon oxides, hitrogen oxides (NOA) 3.4 Activice for fringithers: Weat self-contained breathing apparatus for firefighting if necessary. Further information: No data available Environmental precaution						
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In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in labeling (see section 2.2) and/or in section 11 labeling (see section 2.2) and/or in section 11 Suitable extinguishing media Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special hazards arising from the substance or mixture: Carbon oxides, nitrogen oxides (NOX) Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary. Further information: No data available Advice for firefighters: Wear self-contained breathing apparatus for firefighting dust. For personal protective equipment. Avoid dust forma Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protective equipment. Avoid dust forma Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protective see section 8 Environmental precautions: Do not let product enter drains. Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and she Keep in suitable, closed containers for disposal. Reference to other sections: For disposal see section 13. HANDLING AND STORACE ADV place. Specific end use(s): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated. EXPOSURE CONTROLS/PERSONAL PROTECTION Support of parameters Components with workplace control parameters Contains no substances with occupational exposure limit values. Exposure controls Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks at the end of workday. Personal protective equipment Eyefrace						
If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 4.2 Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in labeling (see section 2.2) and/or in section 11 1.3 Indication of any immediate medical attention and special treatment needed: No data available. 5.7 Extinguishing media: 5.1 Extinguishing media: Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. 5.2 Special hazards arising from the substance or mixture: Carbon oxides, nitrogen oxides (NOx) 5.4 Extinguishing media: 5.3 Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary. 5.4 Further information: No data available 6.5 Acoid breathing vapors, mist, or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8 8.1 Personal Precautions, protective equipment, and emergency procedure: Use personal protective equipment. Avoid dust format Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8 8.2 Environmental precautions: protective equipment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and she Keep in suitable, closed containers for disposal. 8.4						
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goog laporatory practices, wash and dry hands.						
5 ··· , F , ······ , ······		good laboratory practices.	wash and dry hands.			



SAFETY DATA SHEET

Body Protection impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES	

9.1	Information on basic physical and chemical properties	
	a) Appearance	Form: White to Off-White powder
	b) Odor	no data available
	c) Odor Threshold	no data available
	d) pH	no data available
	 e) Melting point/freezing point 	Melting point/range: 79 - 83 °C (174 - 181 °F)
	f) Initial boiling point and boiling range	no data available
	g) Flash point	no data available
	 h) Evaporation rate 	no data available
	i) Flammability (solid, gas)	no data available
	j) Upper/lower flammability or explosive limits	no data available
	k) Vapor pressure	no data available
	I) Vapor density	no data available
	m) Relative density	no data available
	n) Water solubility	no data available
	 o) Partition coefficient: n- octanol/water 	log Pow: 1.181
	p) Auto-ignition temperature	no data available
	 q) Decomposition temperature 	no data available
	r) Viscosity	no data available
	s) Explosive properties	no data available
	t) Oxidizing properties	no data available
9.2	Other safety information:	no data available

10. STABILITY AND REACTIVITY

Reactivity: No data available 10.1

Chemical stability: Stable under recommended storage conditions. 10.2

Possibility of hazardous reactions: No data available 10.3

- 10.4 Conditions to avoid: No data available.
- 10.5 Incompatible materials: Strong oxidizing agents
- Hazardous decomposition products: Other decomposition products no data available. In the event of fire: see section 5 10.6

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects 11.1

Acute toxicity: No data available Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

- Respiratory or skin sensitization: No data available
- Germ cell mutagenicity: No data available

Carcinogenicity:

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

- Specific target organ toxicity repeated exposure: No data available
- Aspiration hazard: No data available

Additional Information: RTECS: Not available

12. ECOLOGICAL INFORMATION

- Toxicity: No data available 12.1
- Persistence and degradability: No data available 12.2
- Bioaccumulative potential: No data available 12.3
- 12.4 Mobility in soil: No data available
- Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.5
- 12.6 Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods
 - Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods



SAFETY DATA SHEET

IMDG Not dangerous goods IATA Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: No SARA Hazards

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components				
Boc-Ala-OH	CAS-No.	F		
	15761-38-3			
New Jareau Bight to Knew Components				

New Jersey Right to Know Components Boc-Ala-OH CAS-No. 15761-38-3 Revision Date

Revision Date

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

F

HMIS Rating	
Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0
NFPA Rating	
Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. Advanced ChemTech shall not be liable for any damage resulting in the handling or from contact with the above product.