

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.	CHEMICAL PROI	JUCT AND COMPANY IDENTIFICATION		
1.1	1 Product identifiers			
	Product Name:	(2R,2'R)-3,3'-Disulfanediylbis(2-aminopropanoic acid) dihydrochloride(L-(-)-Cystine 2HCl)		
	CAS Number:	30925-07-6		
	Catalog Numbers:	A737311		
1.2	Relevant identified u	ses of the substance or mixture and uses advised against		
	Identified uses:	For laboratory research purposes.Not for drug or household use.		
1.3	Details of the supplie Ambeed, Inc.	er of the safety data sheet		
	3205 N WILKE RD, Tel: 630-580-1088	STE 3205-125, Arlington Hts, IL 60004, USA E-mail: sales@ambeed.com		
1.4	Emergency telephor	ne number		
		JSA): 1-352-323-3500		
	Emergency phone (Canada): 1-800-535-5053		
2.	HAZARDS IDENT	IFICATION		
2.1	2.1 Classification of the substance or mixture			
		n accordance with 29 CFR 1910 (OSHA HCS)		
	Acute toxicity, oral(C			
	Skin corrosion/irritat			
Serious eye damage/eye irritation (Ca				
Specific target organ toxicity, single exposure;Respiratory H335 system(Category 3)				
		uatic environment, long-term hazard (Category H410		
	1)	Recent		
	No Resource File	ALATTLE		
2.2	GHS Label elements	s, including precautionary statements		
	Pictogra			
	Signal word:	Danger		
	Hazard statement(s)			
	H302	Harmful if swallowed		
	H315	Causes skin irritation		
	H318	Causes serious eye damage		
	H335	May cause respiratory irritation		
	H410	Very toxic to aquatic life with long lasting effects		
	Precautionary stater	nent(s)		
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.		
	P264	Wash hands thoroughly after handling.		
	P270	Do not eat, drink or smoke when using this product.		
	P271	Use only outdoors or in a well-ventilated area.		

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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 victim 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
No me	contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to in accordance with local regulation

2.3 Other hazards

Additional precautionary phrases are located throughout the safety data sheet.

3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Molecular Formula: C6H14Cl2N2O4S2 Molecular Weight: 313.2224

Component		Concentration	
(2R,2'R)-3,3'-Disulfanediylbis(2-aminopropanoic acid) dihydrochloride			
CAS Number	30925-07-6	-	

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. 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

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The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

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5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: alcohol-resistant foam, dry chemical or carbon dioxide Unsuitable extinguishing media: no data

5.2 Special hazards arising from the substance or mixture In combustion toxic fumes may form.

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas.Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.Do not attempt to take action without suitable protective clothing.For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or river. Alert the neighbourhood to the presence of fumes or gas.

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6.3 Methods and materials for containment and cleaning up

Mix with sand or vermiculite. Sweep up and shovel. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Wash hands thoroughly after handling. Ensure there is sufficient ventilation of the area.

Normal measures for preventive fire protection. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage.Keep in dark place,Inert atmosphere,Room temperature

7.3 Specific end use(s)

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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8.2 Exposure controls

Appropriate engineering controls

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Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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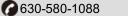
Control of environmental exposure

Do not let product enter drains.

PHYSICAL AND CHEMICAL PROPERTIES 9.

0.				
	Appeara <mark>n</mark> ce	White to off-white powder or crystals		
	Boiling Point	No data available		
	Melting Point	No data available		
	Odour	No data available		
	Odour Threshold	No data available		
	рН	No data available		
	Flash point	No data available		
	Evapouration rate	No data available		
	Vapour pressure	No data available		
	Vapor Density	No data available		
	Relative density	No data available		
	Solubility in water	No data available		
	Auto-ignition temperature	No data available		
	Decomposition temperature	No data available		
	Viscosity No Data	No data available		
	Explosive properties	No data available		
	Oxidizing properties	No data available		
10.	STABILITY AND REACTIVITY			
10.1	Reactivity	all		
	No data available	AnBer		

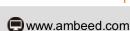
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10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No data available

10.4 Conditions to avoid Not data available

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides, oxides of sulfur

TOXICOLOGICAL INFORMATION 11.

11.1 Information on toxicological effects

	TOXICOLOGICAL INFORMATION	Beech
1	Information on toxicological effects	AN
	Acute Toxicity	No data available
	Skin corrosion/irritation	No data available
	Serious eye Damage/irritation	No data available
	Respiratory or skin sensitisation	No data available
	Germ Cell mutagenicity	No data available
	Carcinogenicity	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

11.2 Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity 🏸 No data available
- 12.2 Persistence and degradability MAMBeed No data available
- 12.3 Bioaccumulative potential No data available
- 12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects No data available



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13.	DISPOSAL CONSIDERATIONS	AmBee	
13.1	Waste treatment methods Disposal Operations	PUPA	
	Consult state, local or national regula hazardous waste.	ations for proper disposal. Hand over	r to authorised disposal company as
	Disposal of Packaging		
	Disposal must be made according to	o official regulations.	
14.	TRANSPORT INFORMATION		
14.1	UN number		
	ADR/RID: 3077	IMDG: 3077	IATA: 3077
14.2	UN proper shipping name ADR/RID: Environmentally hazardou	s substances, solid, n.o.s	
	IMDG: Environmentally hazardous su	ubstances, solid, n.o.s	
14.0	IATA: Environmentally hazardous su	bstances, solid, n.o.s	
14.3	Transport hazard class(es) ADR/RID: 9	IMDG: 9	IATA: 9
14.4	Packaging group		. ch
	ADR/RID: III	IMDG: III	IATA: III
14.5	Environmental hazards		No.
	ADR/RID: Pollutant	IMDG: Pollutant	IATA: Pollutant
14.6	Special precautions for user No special precautions required	mBeech	

14.7 Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

Safety, health and environmental and national regulations: Product is not subject to any additional regulations or provisions California Proposition 65 Not listed on California's listing of known or potential carcinogens. **U.S. Federal Regulations** SARA 313: Not applicable SARA 302: Not applicable SARA 311/312 Hazard Categories: See section 2 for more information Safety Assessment No Chemical Safety Assessment 16. OTHER INFORMATION The reference company name of written contents

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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. 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.

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