

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers Product Name: CAS Number: Catalog Numbers:	(6R,7R)-7-((Z)-2-(2-Aminothiazol-4-yl)-2-(me azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid 68401-81-0 A104202	- , , ,	5-thia-1-
1.2	Relevant identified u ldentified uses:	ises of the substance or mixture and uses advi For laboratory research purposes.Not for dru	-	
1.3	Ambeed, Inc.	er of the safety data sheet STE 3205-125, Arlington Hts, IL 60004, USA E-mail: sales@ambeed.com	PamBer	
1.4	• • • •	ne number USA): 1-352-323-3500 Canada): 1-800-535-5053	PUNI	
2.	HAZARDS IDENTIFICATION			
2.1	GHS Classification i Sensitisation, skin (0	substance or mixture in accordance with 29 CFR 1910 (OSHA HCS Category 1, 1A, 1B) atory(Category 1, 1A, 1B)) H317 H334	
2.2	GHS Label elements, including precautionary statements			
	Pictogra		Ŕ	
	Signal word:	Danger		
	Hazard statement(s) H317) May cause an allergic skin	reaction	
	H334		na symptoms or breathing diffi	culties if
		inhaled		
	Precautionary stater	nent(s)		
	P261	Avoid breathing dust/fume	• • • •	
	P272	P272 Contaminated work clothing should not be allowed out of the		
	P280	workplace. Wear protective gloves/pr protection.	otective clothing/eye protection	n/face
	P284	Wear respiratory protection	on.	
	P302+P352	IF ON SKIN: Wash with ple		
	P304+P340+P312		im to fresh air and keep at res reathing. Call a POISON CEN I unwell.	
2.3	Other hazards			
	Additional precautio	nary phrases are located throughout the safety		
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3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1	Molecular Formula:	C13H13N5O5S2
	Molecular Weight:	383.4028

Component	Beech	Concentration
(6R,7R)-7-((Z)-2-(2-Aminothiazol-4-yl)-2-(methoxyimino)acetamido)-8-oxo-5-thia-1- azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid		
CAS Number	68401-81-0	-

FIRST AID MEASURES 4.

Description of first aid measures 4.1

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

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

Indication of any immediate medical attention and special treatment needed 4.3

No data available

FIRE FIGHTING MEASURES 5.

5.1 Extinguishing media

AmBe 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

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Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas.

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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.

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.

8.2 Exposure controls

Appropriate engineering controls

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

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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).

Control of environmental exposure

Do not let product enter drains.

PHYSICAL AND CHEMICAL PROPERTIES 9.

9.	PHYSICAL AND CHEMICAL PROPERTIES		
	Appearance	Form: Crystal - Powder / Colour: White - Yellow	
	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

No data available

- 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 Strong oxidizing agents

10.6 Hazardous decomposition products

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

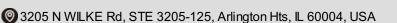
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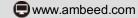
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11. TOXICOLOGICAL INFORMATION

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 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

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12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

- 12.2 Persistence and degradability 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

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal Operations

Consult state, local or national regulations for proper disposal. Hand over to authorised disposal company as hazardous waste.

Disposal of Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1 UN number

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ADR/RID: 2811

IMDG: 2811

IATA: 2811

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14.2 UN proper shipping n ADR/RID: Toxic solid IMDG: Toxic solid, or IATA: Toxic solid, org	l, organic, n.o.s.	yer.
14.3 Transport hazard clas ADR/RID: 6.1	ss(es) IMDG: 6.1	IATA: 6.1
14.4 Packaging group ADR/RID: III	IMDG: III	IATA: III
14.5 Environmental hazar ADR/RID: -	ds IMDG: -	IATA: -
14.6 Special precautions f No special precaution		ed
14.7 Further information No data available	MAINE	

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 Company: Ambeed, Inc. Tel:630-580-1088 Fax: 630-581-0788 E-mail:sales@ambeed.com Address: 3205 N WILKE RD, STE 3205-125, Arlington Hts, IL 60004, USA

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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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