

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

	Molecular Weight:	348.18				
3.1	Molecular Formula:	C10H30Cl4N4				
3.	COMPOSITION, INFORMATION ON INGREDIENTS					
2.3	Other hazards Additional precautiona	ry phrases are located throughout the safety data sheet.				
	Precautionary stateme P305+P351+P338	nt(s) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
	H319	Causes serious eye irritation				
	H315	Causes skin irritation				
	Hazard statement(s)	ATAM				
	Signal word:	Warning				
2.2	GHS Label elements, i Pictogra	ncluding precautionary statements				
	Skin corrosion/irritation	accordance with 29 CFR 1910 (OSHA HCS) n (Category 2) H315 eye irritation(Category 2A) H319				
2.1	Classification of the substance or mixture					
2.	HAZARDS IDENTIF	ICATION				
1.4	Emergency phone (USA): 1-352-323-3500 Emergency phone (Canada): 1-800-535-5053					
		E 3205-125, Arlington Hts, IL 60004, USA E-mail: sales@ambeed.com				
1.3	Details of the supplier of the safety data sheet					
1.2	Relevant identified uses of the substance or mixture and uses advised against Identified uses: For laboratory research purposes.Not for drug or household use.					
1.1	CAS Number: 3	N1,N1'-(Butane-1,4-diyl)bis(propane-1,3-diamine) tetrahydrochloride(Spermine 4HCl) 806-67-2 N134234				

	Component	Bee	Concentration				
N1,N1'-(Butane-1,4-diyl)bis(propane-1,3-diamine) tetrahydrochloride							
	CAS Number	306-67-2	-				

### 4. FIRST AID MEASURES

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#### 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

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

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

#### ACCIDENTAL RELEASE MEASURES 6.

#### Personal precautions, protective equipment and emergency procedures 6.1

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.

#### 6.3 Methods and materials for containment and cleaning up

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

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#### 6.4 Reference to other sections For disposal see section 13.

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

AmBeed 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.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

#### Control parameters 8.1

#### 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**

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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance **Boiling Point** Melting Point Odour Odour Threshold pН Flash point Evapouration rate Vapour pressure Vapor Density Relative density Solubility in water Auto-ignition temperature Decomposition temperature Viscosity No Data Explosive properties Oxidizing properties

White to yellow powder or crystals No data available P AmBee No data available No data available No data available No data available

### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

No data available

#### 10.2 Chemical stability

Ambeed Stable under recommended storage conditions.

- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid No data available
- 10.5 Incompatible materials Strong oxidizing agents

#### 10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides

#### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

- Acute Toxicity
- Skin corrosion/irritation
- Serious eye Damage/irritation
- Respiratory or skin sensitisation
- Germ Cell mutagenicity
- Carcinogenicity
- Reproductive toxicity
- STOT-single exposure
- STOT-repeated exposure

No data available No data available

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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

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

1

Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

14.1	UN number	- 0			
	ADR/RID: -	IMDG: ·		IATA: -	
14.2	UN proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods	amB	eed	P. A.	
14.3	Transport hazard class(es)	1 · ·			
	ADR/RID: -	IMDG: ·	-	IATA: -	
14.4	Packaging group ADR/RID: -	IMDG: ·	-	IATA: -	
14.5	Environmental hazards				
	ADR/RID: -	IMDG: ·		IATA: -	
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#### 14.6 Special precautions for user

No special precautions required

#### 14.7 Further information

No data available

### 15. REGULATORY INFORMATION

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

#### 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.

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AmBer 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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