

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.	CHEMICAL PROL	DUCT AND COMPANY IDENTI	FICATION	
1.1	Product identifiers Product Name: CAS Number: Catalog Numbers:	3-Amino-2-(methylsulfanyl)butan-1- 1333756-39-0 A1135904	-ol	
1.2	Relevant identified us ldentified uses:	ses of the substance or mixture and For laboratory research purposes.		
1.3	Details of the supplie Ambeed, Inc.	er of the safety data sheet		
		ffalo Grove, IL 60089,USA E-mail: sales@ambeed.com		
1.4	• • • •	e number JSA): 1-352-323-3500 Canada): 1-800-535-5053	PLAMBer	
2.	HAZARDS IDENT	IFICATION		
2.1	Acute toxicity, oral(C Acute toxicity, derma Skin corrosion/irritati Serious eye damage Acute toxicity, inhalat	n accordance with 29 CFR 1910 (O ategory 4) Il (Category 4) on (Category 1A, 1B, 1C) e/eye irritation(Category 1)	H302 H312 H314 H318 H332	
2.2	GHS Label elements Pictogra	s, including precautionary statements	5	
	Signal word:	Danger		
	Hazard statement(s) H302 H312 H314 H332 H335	Harmful if swallov Harmful in contac	ct with skin skin burns and eye damage d	
	P264Wash hands thoreP270Do not eat, drink orP271Use only outdoors		dust/fume/gas/mist/vapours/spray. proughly after handling. k or smoke when using this product. prs or in a well-ventilated area. gloves/protective clothing/eye protection/face	
	A	protection.		

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P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
	clothing. Rinse skin with water/shower.
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
	contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
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.

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3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1Molecular Formula:C5H13NOSMolecular Weight:135.23

Component		Concentration		
3-Amino-2-(methylsulfanyl)butan-	Amino-2-(methylsulfanyl)butan-1-ol			
CAS Number	1333756-39-0	-		

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

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

$4.3 \quad \text{Indication of any immediate medical attention and special treatment needed}$

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.

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

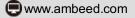
Appropriate engineering controls

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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).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	No data available
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

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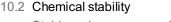


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Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No data available

10.4 Conditions to avoid No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

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

TOXICOLOGICAL INFORMATION 11.

11.1 Information on toxicological effects

TOXICOLOGICAL INFORMATION	Beech
Information on toxicological effects	AS
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
	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

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

ECOLOGICAL INFORMATION 12.

- 12.1 Toxicity 🏸 No data available
- 12.2 Persistence and degradability AmBeed 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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S	AFETY DATA SHEET	(A1135904)			
13.	DISPOSAL CONSIDERATIO	NS	e ^e		
13.1	Waste treatment methods Disposal Operations Consult state, local or national reg hazardous waste. Disposal of Packaging Disposal must be made accordin		sal. Hand over to authorised	l disposal company as	
14.	TRANSPORT INFORMATIO	N			
14.1	UN number ADR/RID: 2735	IMDG: 2735	IATA: 2735		
14.2	UN proper shipping name				

ADR/RID: Amines, liquid, corrosive, n.o.s., or Polyamines, liquid, corrosive, n.o.s. IMDG: Amines, liquid, corrosive, n.o.s., or Polyamines, liquid, corrosive, n.o.s. IATA: Amines, liquid, corrosive, n.o.s., or Polyamines, liquid, corrosive, n.o.s.

14.3	Transport hazard class	s(es)			
	ADR/RID: 8	IME	DG: 8	IATA: 8	
14.4	Packaging group				
	ADR/RID: II	IME	DG: II	IATA: II	
14.5	Environmental hazard	S		PJP*	
	ADR/RID: -	IME	DG: -	IATA: -	
14.6	Special precautions for	or user	DG:- Baaa		
	No special precaution	s requir <mark>ed province</mark>			
14.7	Further information				
	No data available				
15.	5. 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 applic		POPS		
	SARA 302: Not applic				
	SARA 311/312 Hazard Categories: See section 2 for more information				
	Safety Assessment				
	No Chemical Safety A	ssessment			
16.	OTHER INFORMATION				
	The reference company name of written contents				
	Company: Ambeed, In		0 E maikaaka Qamka I		
	Tel:630-580-1088	-ax: 630-581-078	8 E-mail:sales@ambeed.co)m	
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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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