Α	mbeed, Ir	IC.			A	
S	AFETY DATA	SHEET	(A376712)		VA m	Be
1.	CHEMICAL PROD	DUCT AND C	COMPANY IDENTIF	ICATION		
1.1	Product identifiers Product Name: CAS Number: Catalog Numbers:	3-Bromopyru 1113-59-3 A376712	vic Acid(3-Bromopyru	vic acid)		
1.2	Relevant identified u ldentified uses:		stance or mixture and u y research purposes.N		•	
1.3	Details of the supplie Ambeed, Inc. 3205 N WILKE RD, 3 Tel: 630-580-1088	STE 3205-125	data sheet , Arlington Hts, IL 6000 @ambeed.com	04, USA	a ch	
1.4	Emergency telephon Emergency phone (L Emergency phone (C	JSA): 1-352-32			MAMBer	
2.	HAZARDS IDENT	IFICATION	Beet			
2.1	Classification of the GHS Classification i Skin corrosion/irritati Serious eye damage No Resource File	n accordance	with 29 CFR 1910 (OS 1A, 1B, 1C)	H	314 318	
2.2	GHS Label elements Pictogra Signal word:	s, including pre	cautionary statements	eed		
	Hazard statement(s)		0 and			
	H314		Causes severe sl	kin burns and	eye damage	
	Precautionary staten P280 P305+P351+P338	nent(s)	protection.		tive clothing/eye protection/face	
	F 303 F 331 F 330			•	easy to do. Continue rinsing.	5
	P310		Immediately call	a POISON CE	ENTER or doctor/physician.	
2.3	Other hazards Additional precautionary phrases are located throughout the safety data sheet.					
3.	COMPOSITION, I	NFORMATIO	ON ON INGREDIEN	ITS		
3.1	Molecular Formula: Molecular Weight:		3H3BrO3 6.96	3eeu		
	Component		.	(Concentration	

	• • · · · · p • · · • · · ·			
	3-Bromopyruvic Acid			
	CAS Number	1113-59-3	-	
Product Url: www.ambeed.com/products/1113-59-3.html For Resea				Research Use Only!

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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 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

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

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.

ACCIDENTAL RELEASE MEASURES 6.

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.

Methods and materials for containment and cleaning up 6.3

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Mix with sand or vermiculite. Sweep up and shovel. Transfer to a closable, labelled salvage container for MAMBeed 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.Sealed in dry, store in freezer, under -20°C

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.

EXPOSURE CONTROLS, PERSONAL PROTECTION 8.

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

AmBei Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the mBee 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

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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

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Do not let product enter drains.

PHYSICAL AND CHEMICAL PROPERTIES 9.

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

Form: Crystal - Powder / Colour: White - Yellow No data available No data available

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10. STABILITY AND REACTIVITY

10.1 Reactivity

- Stable under recommended storage conditions. Provide Ambridge Stable under recommended storage conditions. Provide Ambridge Stable Under Stable Unde 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid No data available
- 10.5 Incompatible materials Reducing agents, Oxidizing agents
- 10.6 Hazardous decomposition products Carbon monoxide, carbon dioxide, hydrogen bromide

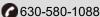
TOXICOLOGICAL INFORMATION 11.

11.1 Information on toxicological effects

Acute Toxicity Skin corrosion/irritation Serious eye Damage/irritation Respiratory or skin sensitisation Germ Cell mutagenicity Carcinogenicity

No data available No data available

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Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard

No data available No data available No data available 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
- **DISPOSAL CONSIDERATIONS** 13.

13.1 Waste treatment methods

Disposal Operations

unBeed 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 nu	umber
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ADR/RID: 3261

14.2 UN proper shipping name

ADR/RID: Corrosive solid, acidic, organic, n.o.s. IMDG: Corrosive solid, acidic, organic, n.o.s. IATA: Corrosive solid, acidic, organic, n.o.s.

14.3 Transport hazard class(es)

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	ADR/RID: 8	IMDG: 8	IATA: 8	
14.4	Packaging group			
	ADR/RID: II	IMDG: II	 IATA: II	
Proc	luct Url: www.ambeed.com/products/111	3-59-3.html		For Research Use Only

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Page 5 of 6

IATA: 3261

- 14.5 Environmental hazards ADR/RID: -
- 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.

IMDG

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

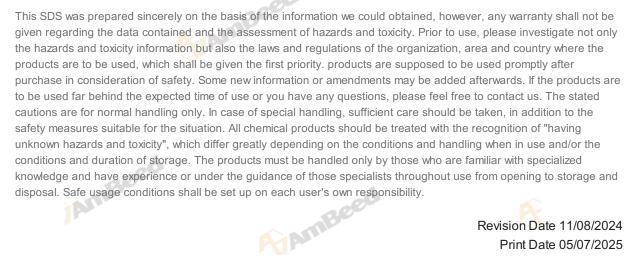
No Chemical Safety Assessment

16. OTHER INFORMATION

The reference company name of written contents

Company: Ambeed, Inc.

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