SECTION 1: Identification

1.1. Identification
Product form : Mixture
Product name : SonicBoom™

1.2. Recommended use and restrictions on use
No additional information available

1.3. Supplier
BioChem Systems, Inc.
480 Wildwood Forest Drive
Suite 400
Spring, TX 77380
1 (800) 777-7870

1.4. Emergency telephone number
Emergency number : PERS - (800) 633-8253

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS classification
Skin Corr. 1A H314
Eye Dam. 1 H318
Skin Sens. 1 H317

2.2. GHS Label elements, including precautionary statements
GHS labelling
Hazard pictograms (GHS) :

Signal word (GHS) : Danger
Hazard statements (GHS) : H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
Precautionary statements (GHS) : P260 - Do not breathe mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, chemical goggles, & face protection.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P302+P352 - If on skin: Wash with plenty of water.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep 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
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification
No additional information available

2.4. Unknown acute toxicity (GHS)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

Name	Product identifier	%
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts	(CAS-No.) 61789-40-0	10 – 30
Ethanolamine	(CAS-No.) 141-43-5	5 - 10
Sodium metasilicate	(CAS-No.) 6834-92-0	1 – 5

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention immediately.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes severe skin burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : May cause gastrointestinal irritation.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. Dry powder. Water spray.

5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.

Explosion hazard : Product is not explosive.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so.

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not dispose of fire-fighting water in the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Prevent entry to sewers and public waters.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Keep container closed when not in use. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container closed when not in use. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store in a dry, cool and well-ventilated place.

Incompatible materials : No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium metasilicate (6834-92-0)	
USA - OSHA / ACGIH & Singapore WHS - Occupational Exposure Limits	
Remark	OELs not established

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)	
USA - OSHA / ACGIH & Singapore WHS - Occupational Exposure Limits	
Remark	OELs not established

Ethanolamine (141-43-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	3 ppm
ACGIH OEL STEL [ppm]	6 ppm
Remark (ACGIH)	TLV® Basis: Eye & skin irr
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	6 mg/m³
OSHA PEL TWA [2]	3 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Singapore - WHS Occupational Exposure Limits	
PEL (Long term)	3 ppm
PEL (Long term)	7.5 mg/m³
PEL (Short term)	6 ppm
PEL (Short term)	15 mg/m³

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment symbol(s):

Personal protective equipment:

Gloves. Protective glasses / goggles. Wear full coverage clothing, and where applicable chemically impervious apron over labcoat.

Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Be aware that the chemical may penetrate the gloves. Frequent changes are advisable. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

Eye protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection:

Where vapour, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear & bright.
Colour	:	Light yellow
Odour	:	No data available
Odour threshold	:	No data available
pH	:	12.7 – 13.6
Melting point	:	No data available
Freezing point	:	≈ 25 °F
Boiling point	:	≥ 212 °F
Flash point	:	≥ 400 °F
Relative evaporation rate (butylacetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available

Relative vapour density at 20°C	:	8.76 lbs/gal @ 20 ± 0.5 °C (relative)
Relative density	:	No data available
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	No data available
Explosive limits	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No dangerous reactions known under normal conditions of use.
10.2. Chemical stability
Stable under recommended handling and storage conditions (see section 7).
10.3. Possibility of hazardous reactions
None under normal use.
10.4. Conditions to avoid
None under normal use.
10.5. Incompatible materials
None known.
10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

Sodium metasilicate (6834-92-0)	
LD50 oral rat	1153 mg/kg

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg (Source: CHEMVIEW)

Ethanolamine (141-43-5)	
LD50 oral rat	1720 mg/kg
LD50 dermal rabbit	1000 mg/kg
LC50 Inhalation - Rat	> 1.3 mg/l (Exposure time: 6 h Source: ECHA_API)

Skin corrosion/irritation	:	Causes severe skin burns. (pH: 12.7 – 13.6)
Serious eye damage/irritation	:	Causes serious eye damage. (pH: 12.7 – 13.6)
Respiratory or skin sensitisation	:	May cause an allergic skin reaction.
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified
Viscosity, kinematic	:	Not applicable
Symptoms/effects	:	Causes severe skin burns and eye damage. May cause an allergic skin reaction.
Symptoms/effects after inhalation	:	May cause respiratory irritation.
Symptoms/effects after skin contact	:	Causes severe skin burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	:	Causes serious eye damage.
Symptoms/effects after ingestion	:	May cause gastrointestinal irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	No data available.

12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential

Ethanolamine (141-43-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.31 Source: ICSC

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other adverse effects : No data available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without a permit.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

Transport by land (ADR / DOT)

Transport document description (ADR / DOT) : UN3266 Corrosive liquid, basic, inorganic, n.o.s. (CONTAINS : Ethanolamine), 8, III
UN-No.(ADR / DOT) : UN3266
Proper Shipping Name (ADR / DOT) : Corrosive liquid, basic, inorganic, n.o.s.
CONTAINS : Ethanolamine
Class (ADR / DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (ADR / DOT) : III - Minor Danger
Hazard labels (ADR / DOT) : 8 - Corrosive

Special provisions : 274
Limited quantities : 5l
Excepted quantities : E1
Packaging and packaging instructions : P001, IBC03, LP01, R001
Emergency Response Guide (ERG) Number : 154

Transport by sea (IMDG)

Transport document description (IMDG) : UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (CONTAINS : Ethanolamine), 8, III
UN-No. (IMDG) : 3266
Proper Shipping Name (IMDG) : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Class (IMDG) : 8 - Corrosive substances
Packing group (IMDG) : III - substances presenting low danger
Limited quantities (IMDG) : 5 L

Air transport (IATA)

Transport document description (IATA) : UN 3266 Corrosive liquid, basic, inorganic, n.o.s. (CONTAINS : Ethanolamine), 8, III
UN-No. (IATA) : 3266
Proper Shipping Name (IATA) : Corrosive liquid, basic, inorganic, n.o.s.
Class (IATA) : 8 - Corrosives
Packing group (IATA) : III - Low danger

SECTION 15: Regulatory information

15.1. Singapore regulations

SonicBoom™
Singapore does not maintain a national inventory of chemical substances

List of Controlled Hazardous Substances : None of the components are listed.
Singapore RoHS (SG-RoHS) : Not applicable.

15.2. International regulations

SonicBoom™
All chemical substances in this product are listed as “Active” in the EPA (Environmental Protection Agency) “TSCA Inventory Notification (Active-Inactive) Requirements Rule” (“the Final Rule”) of Feb. 2019, as amended Feb. 2021, or are otherwise exempt or regulated by other agencies such as FDA or FIFRA

Montreal Protocol (Ozone depleting substances) : None of the components are listed.
Stockholm Convention (Persistent Organic Pollutants) : None of the components are listed.
Rotterdam Conventrion (Prior Informed Consent) : None of the components are listed.
Basel Convention (Hazardous Waste) : None of the components are listed.

SECTION 16: Other information

Other information : Revised by: Regulatory & Compliance October 16, 2023.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.