

Material Safety Data Sheet
 Bromotrimethylsilane

Section 1 - Chemical Product and Company Identification

MSDS Name: Bromotrimethylsilane
 Catalog Numbers: 18665-0000, 18665-0050, 18665-0250, 18665-1000
 Synonyms: Trimethylsilyl bromide

Company Identification: Acros Organics BVBA
 Janssen Pharmaceuticaaan 3a
 2440 Geel, Belgium
 Acros Organics
 One Reagent Lane
 Fair Lawn, NJ 07410

Company Identification: (USA)
 800-ACROS-01
 +32 14 57 52 11
 +32 14 57 52 99
 201-796-7100
 800-424-9300
 703-527-3887

For information in the US, call:
 For information in Europe, call:
 Emergency Number, Europe:
 Emergency Number US:
 CHEMTREC Phone Number, US:
 CHEMTREC Phone Number, Europe:

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
2857-97-8	Bromotrimethylsilane	98%	220-672-0

Hazard Symbols: C



Risk Phrases: 10 14 29 34

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Flammable. Reacts violently with water. Contact with water liberates toxic gas. Causes burns.

Potential Health Effects

Eye: Causes eye burns.

Skin: Causes skin burns.

Ingestion: Causes gastrointestinal tract burns.

Inhalation: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Chronic:

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Water Reactive. Material will react with water and may release a flammable and/or toxic gas. Containers may explode in the heat of a fire. Flammable liquid and vapor.

Extinguishing Media: Do NOT use water directly on fire. Use foam, dry chemical, or carbon dioxide.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Remove all sources of ignition. Use a spark-proof tool. Do not expose spill to water. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Do not allow water to get into the container because of violent reaction. Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use and store under nitrogen. Do not allow contact with water. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area. Corrosives area. Water free area. Store protected from moisture. Store under nitrogen.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 2857-97-8:

United Kingdom, WEL - TWA: (silica, amorphous): 6 mg/m³ TWA (inhalable dust); 2.4 mg/m³ TWA (respirable dust)

United Kingdom, WEL - STEL: (silica, amorphous): 18 mg/m³ STEL (inhalable dust); 7.2 mg/m³ STEL (respirable dust)

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: clear colorless to slightly yellow

Odor: Not available

pH: Not available

Vapor Pressure: Not available

Viscosity: Not available

Boiling Point: 79 deg C @760mmHg (174.20°F)

Freezing/Melting Point: -43 deg C (-45.40°F)

Autoignition Temperature: Not available

Flash Point: 32 deg C (89.60 deg F)

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Decomposition Temperature: Not available

Solubility in water: decomposes

Specific Gravity/Density: 1.160

Molecular Formula: C3H9BrSi

Molecular Weight: 153.1

Section 10 - Stability and Reactivity

Chemical Stability: Moisture sensitive. Reacts violently with water to yield hydrogen bromide.
Conditions to Avoid: Incompatible materials, exposure to moist air or water.
Incompatibilities with Other Materials: Water, strong oxidizing agents, strong acids, bases.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen bromide, silicon dioxide, bromine.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 2857-97-8: None listed
LD50/LC50: RTECS: Not available.
Carcinogenicity: Bromotrimethylsilane - IARC: Group 3 (not classifiable) (Silica, amorphous).
Other: The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Other: Do not empty into drains.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S.*	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Hazard Class:	8 (3)	8 (3)	8 (3)
UN Number:	2920	2920	2920
Packing Group:	I	I	I

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

- R 10 Flammable.
- R 14 Reacts violently with water.
- R 29 Contact with water liberates toxic gas.
- R 34 Causes burns.

Safety Phrases:

- S 8 Keep container dry.
- S 16 Keep away from sources of ignition - No smoking.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 2857-97-8: Not available

Canada

CAS# 2857-97-8 is listed on Canada's NDSL List

US Federal

TSCA

CAS# 2857-97-8 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 8/30/1996

Revision #2 Date 5/09/2005

Revisions were made in Sections: General revision.

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