

Material Safety Datasheet (MSDS)

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Version 1.0

www.abmgood.com

Applied Biological Materials Inc.

1-3671 Viking Way,

Richmond, BC, CANADA

V6V 2J5

Section 1 – Product and Company Information

Product Name	SafeBath™
Catalog # From Manufacturer	G7020
Original Manufacturer	Applied Biological Materials Inc.
Company	Applied Biological Materials Inc.
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Technical Phone	604-247-2416
Fax	604-247-2414
Emergency Phone	866-757-2414

Section 2 – Composition/Information on Ingredient

Substance Name	Not applicable. <i>*The exact percentage (concentration) of composition has been withheld as a trade secret.</i>
CAS Number	68424-85-1, 64-17-5
EEC-No	270-325-2, 200-578-6
Other Components	Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Section 3 – Hazards Identification

WHMIS Classification	<ul style="list-style-type: none">• Flammable liquids: 3• Acute Toxicity, Oral: 4• Skin Corrosion: 1B• Serious Eye Damage: 1• Short-Term (Acute) Aquatic Hazard: 1• Long-Term (Chronic) Aquatic Hazard: 1
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Section 4 – First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and immediately call ophthalmologist. Remove contact lenses.
Skin Contact	Take off immediately all contaminated clothing. Wash off with soap and plenty of water. Consult a physician immediately.
Inhalation	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
Ingestion	After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize. Never give anything by mouth to an unconscious person.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media	Use media appropriate to the primary cause of fire. Foam Carbon dioxide (CO2) Dry powder.
Specific Hazards	Carbon oxides, nitrogen oxides, hydrogen chloride gas, mixture with combustible ingredients. Vapours are heavier than air and may spread along floors, forms explosive mixtures with air at elevated temperature, development of hazardous combustion gases or vapours possible in the event of fire.

Section 6 – Accidental Release Measures

Personal Precautions	Use personal protective equipment as required. Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, and consult an expert.
Methods for Cleaning Up	Cover drains. Collect, bind, and pump off spills. Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

Environmental Precautions	Do not let product enter drains. Risk of explosion.
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Section 7 – Handling and Storage

Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Immediately change contaminated clothing. Wash hands and face after working with substance.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

Section 8 – Exposure Controls/ PPE

Engineering Controls	<ul style="list-style-type: none"> A system of local and/or general exhaust is recommended to keep employee exposures low. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.
Personal Protective Equipment	<ul style="list-style-type: none"> Eye Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles. Skin and Body Protection: Wear appropriate protective gloves and clothing to prevent skin exposure. 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. Respiratory Protection: Recommended Filter type: Filter type ABEK The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.
General Hygiene Measures	<ul style="list-style-type: none"> Handle in accordance with good industrial hygiene and safety practice.

Section 9 – Physical and Chemical Properties

Appearance	Liquid
Odour	No data available.
Melting Point (°C)	No data available.
Boiling Temperature (°C)	78-100 °C
Density	0.960 g/cm ³
Vapour Pressure	59 hPa at 20 °C
Solubility in Water	No data available.
Flash Point	40.5 °C (104.9 °F) - closed cup
Explosion Limits	No data available.
Ignition Temperature	No data available.

Section 10 – Stability and Reactivity

Stability	<ul style="list-style-type: none">Stability: Stable under normal conditions.
Hazardous Decomposition Products	<ul style="list-style-type: none">In the event of fire: see section 5
Incompatible Materials	<ul style="list-style-type: none">Strong oxidizing agents, Strong reducing agents.
Reactivity	<ul style="list-style-type: none">Vapor/air-mixtures are explosive at intense warming
Conditions to Avoid	<ul style="list-style-type: none">Heating

Section 11 – Toxicological Information

Route of Exposure	<ul style="list-style-type: none">Oral: Acute toxicity estimate Oral - 852 mg/kg. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.Skin Contact: May cause skin irritation.Skin Absorption: May be harmful if absorbed through the skin.Eye Contact: Mixture causes serious eye damage. Risk of blindness.Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
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Signs and Symptoms of Exposure	<ul style="list-style-type: none"> To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Other dangerous properties cannot be excluded. Handle in accordance with good industrial hygiene and safety practice.
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Section 12 – Ecological Information

Toxicity	<ul style="list-style-type: none"> No data available.
Persistence and Degradability	<ul style="list-style-type: none"> No data available.
Bioaccumulative Potential	<ul style="list-style-type: none"> No data available.
Mobility in Soil	<ul style="list-style-type: none"> No data available.

Section 13 – Disposal Considerations

Product	<ul style="list-style-type: none"> Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.
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Section 14 – Transportation Information

IATA	<ul style="list-style-type: none"> UN number: 2920 Class: 8 (3) Packing group: II Proper shipping name: Corrosive liquid, flammable, n.o.s. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, ethanol)
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Section 15 – Regulatory Information

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

Section 16 – Other Information

The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.

Applied Biological Materials Inc. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Datasheet.