

Safety Data Sheet (SDS)

Section 1: Chemical Product and Company Identification

Cat#: 3408

Part Name: BathBrite

Supplier: Decon Labs, Inc.

460 Glennie Circle King of Prussia, PA 19406

SDS Telephone # (610) 755-0800

Emergency Telephone Numbers

US Chemtrec: (800) 424-9300

Canada: (703) 527-3887

Identified uses: Laboratory use

Section 2: Hazards Identification:

1. Hazard(s) identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 2
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
OSHA defined hazards	Not classified.	
Label elements		



Signal word Danger

Hazard statement Flammable liquid and vapor. Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Fatal if inhaled. Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.

Response

If swallowed: Immediately call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		
NFPA RATING			
Health	3	Flammability	3
		Reactivity	0

Section 3: Composition/ Information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium chloride (C12-16)		68424-85-1	80
Ethanol		64-17-5	11 - 15
Water		7732-18-5	< 5
C12-16-alkyldimethyl amines		68439-70-3	< 1.6

Section 4: First Aid Measures

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Skin contact
Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

Ingestion
Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting.

Most important symptoms/effects, acute and delayed
Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed
If product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

General Information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5: Fire-Fighting Measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing Media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

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Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self-contained breathing apparatus.

Fire-fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

Flammable liquid and vapor.

Section 6: Accidental Release measures

Personal Precautions, protective equipment and emergency procedures

Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not breathe vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

Methods and Materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Environmental Precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Section 7: Handling and Storage

Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not taste or swallow. Avoid prolonged exposure. Do not get this material on clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE: Store in a dry place no lower in temperature than 50°F or higher than 120°F. Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

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Section 8: Exposure Controls/ Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910,1000)

Components	Type	Value
Ethanol (CAS #64-17-5)	PEL	1900 mg/m3 1000 ppm

US ACGIH Threshold Limit Values

Components	Type	Value
Ethanol (CAS #64-17-5)	STEL	1000 ppm

US NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ethanol (CAS #64-17-5)	TWA	1900 mg/m3 1000 ppm

Appropriate engineering controls –

Ensure adequate ventilation, especially in confined areas, Eye wash facilities and emergency shower must be available when handling product.

Eye/face protection- Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

Hand protection- Wear appropriate chemical resistant gloves

Other - Wear appropriate chemical resistant clothing

Respiratory protection -

In case of insufficient ventilation, wear suitable respiratory equipment, If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable label (where established) , and approved respirator must be worn.

Thermal Hazards- Wear appropriate thermal protective clothing, when necessary

General Hygiene considerations-

When using, do not eat, drink or smoke. Always observe personal hygiene measures, such as hand washing after handling and before eating, drinking or smoking, routinely wash work clothing and PPE to remove contaminants.

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Section 9: Physical and Chemical Properties

Formula:	Mixture	Vapor Pressure:	Not determined
Formula weight:	Not available	Vapor Density:	Est. Heavier than air
Boiling Point:	Not available	Relative Density:	Not available
Melting Point:	Not available	pH:	6.5 to 8.5 @ 10% aqueous solution
Flash Point:	89.6 °F (32.0 °C) Pensky-Martens Closed Cup	Appearance:	Light yellow, liquid
Solubility:	Not available	Density	7.80 lb./gal
Viscosity:	1000 cps @25°C	Evaporation rate:	Slower than ethyl ether

Section 10: Stability and Reactivity:

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Material is stable under normal conditions
Conditions to Avoid:	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatibility with other materials:	Strong oxidizing agents. Anionic surfactants
Hazardous Decomposition Products:	Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons

Section 11: Toxicological Information

Information on likely routes of exposure:

Ingestion:	Harmful if swallowed. Causes digestive tract burns
Inhalation:	Not likely, due to the form of the product
Skin Contact:	Causes severe skin burns
Eye Contact:	Causes serious eye damage

Symptoms related to the physical, chemical and toxicological characteristics:

Burning pain and severe corrosive skin damage. Causes serious eye damage.

Information on toxicology effects

Acute Toxicity: Fatal if inhaled. Harmful if swallowed.

Product	Species	Test Results
BathBrite		
Acute:		
Dermal		
LD50	Rabbit	>2000 mg/kg
Inhalation		
LC50		0.054 – 0.51 mg/l
Oral		
LD50	Rat	344 mg/kg

Skin corrosion/irritation

Serious eye damage/eye irritation:

Respiratory or skin sensitization

Respiratory Sensitization:

Skin Sensitization:

Causes severe skin burns and eye damage

Causes serious eye damage

Not available

This product is not expected to cause skin sensitization

Germ cell mutagenicity:

Carcinogenicity:

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

This product not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive Toxicity:

Specific Target Organ Toxicity:
(Single Exposure)

Specific Target Organ Toxicity:
(repeated exposure)

Aspiration Hazard:

This product is not expected to cause reproductive or developmental effects.

Not applicable

Not applicable

Not applicable

Section 12: Ecological Information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Product		Species	Test Result
BathBrite			
Acute			
Algae:	EC50	Algae	0.063 mg/l, 96 hours
Crustacea	LC50	Daphnia	0.0058 – 0.016 mg/l, 48 hours
Fisher	LC50	Fish	0.86 ppm, 96 hours

Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethanol

Mobility in soil

Readily biodegradable

No data available

-0.31

No data available

Other adverse effects:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13: Disposal Considerations

Disposal instructions	PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
Container Disposal	Nonrefillable Container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse empty container with water. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company
Waste from residues/unused Products	Not available
Contaminated Packaging	Not available

Section 14: Transportation Information

DOT & IATA

UN number	UN2920
UN proper shipping name	Corrosive liquid, flammable, N.O.S. (Quaternary ammonium chloride, Ethanol)
Transport hazard class(es)	
Class	8
Subsidiary risk	3
Packing group	II
Environmental hazards	Yes
Special precautions for user	Not available.

IMDG	
UN number	UN2920
UN proper shipping name	Corrosive liquid, flammable, N.O.S. (Quaternary ammonium chloride, Ethanol), MARINE POLLUTANT
Transport hazard class(es)	
Class	8
Subsidiary risk	3
Packing group	II
Environmental hazards	
Marine pollutant	Yes
EmS	Not available.
Special precautions for user	Not available.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	

DOT



IATA; IMDG



Marine pollutant



Section 15: Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)- Not listed.
SARA 304 Emergency release notification - Not regulated
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) -Not listed.
Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely Hazardous substance - Not listed
SARA 311/312 Hazardous Chemical- YES

Hazard categories **Flammable (gases, aerosols liquids or solids)**
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious corrosion or irritation

SARA 313 (TRI reporting) Not regulated

Other Federal Regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not Regulated
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not Regulated

Safe Drinking Water Act (SDWA) Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (CAS 64-17-5)

Low priority

FIFRA Information	This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:
Signal word	DANGER
Hazard statement	Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed, absorbed through the skin or inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. This product is toxic to fish, aquatic invertebrates, oysters, and shrimp.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no) *
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
New Zealand	New Zealand Inventory (NZIoC)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16: Other Information

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End of Safety Data Sheet