

Material Safety Data Sheet

Bactron® K-77 Antimicrobial

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Bactron® K-77 Antimicrobial
Product use	Biocide
Manufacturer	Champion Technologies, Inc. P.O. Box 450499 Houston, TX, 77245 USA
Telephone	1-281-431-2561 (Champion)
In case of emergency	1-800-424-9300 (CHEMTREC) 1-703-527-3887 (CHEMTREC - International)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Signal Word	Danger
Hazard Summary	Corrosive. Harmful. May cause sensitization by inhalation. May cause sensitization by skin contact.
Physical state	liquid
Color	Clear. colorless.
Odor	sweet, sharp
Primary Routes of Entry	Inhalation. Skin.

Potential Health Effects

Inhalation	May cause respiratory tract irritation. Harmful if inhaled. Vapors, spray or mists may be very irritating or corrosive to the respiratory system. May cause allergic respiratory reaction.
Skin	May cause allergic skin reaction. Causes skin burns. May cause allergic skin reaction.
Eyes	Causes eye burns. May cause permanent eye injury.
Ingestion	Harmful if swallowed. Causes digestive tract burns.
Chronic Exposure	No known significant effects or critical hazards.
Medical conditions aggravated by over-exposure	Asthma Skin disorders

Environmental hazards

Environmental effects	No known significant effects or critical hazards.
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See toxicological information (section 11)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

<u>Name</u>	<u>CAS no.</u>	<u>Weight %</u>
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Glutaraldehyde

111-30-8

10 - 30

SECTION 4. FIRST AID MEASURES

General advice	If you feel unwell, seek medical advice (show the label when possible). No action shall be taken involving any personal risk or without suitable training.
Inhalation	Move exposed person to fresh air. Call a physician or poison control center immediately. If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear.
Skin contact	Take off contaminated clothing and shoes immediately. Flush contaminated skin with plenty of water. Get medical attention immediately.
Eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Continue rinsing eyes during transport to hospital. Keep eye wide open while rinsing. Protect unharmed eye.
Ingestion	Rinse mouth with water. Drink plenty of water. Call a physician or poison control center immediately. Take victim immediately to hospital. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
Notes to physician	No information available.

SECTION 5. FIRE-FIGHTING MEASURES

Fire Hazard	No specific fire or explosion hazard.
Flash point	> 200 °F (> 93.3 °C) Pensky-Martens. closed cup
Autoignition temperature	Not available.
Flammable limits	Lower: Not available. Upper: Not available.
<u>Extinguishing media</u>	
Suitable	Use an extinguishing agent suitable for the surrounding fire.
Hazardous combustion products	Carbon oxides.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters' protective clothing will only provide limited protection.
Further information	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Explosion hazard	Risk of explosion of the product in the presence of mechanical impact: Not available. Risk of explosion of the product in the presence of static discharge: Not available.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation. Avoid breathing vapor or mist. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	Avoid contact of spilled material with soil and prevent runoff entering surface waterways.
Methods for cleaning up	For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Contain spillage, soak up with non-combustible absorbent

material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Handling	Use only with adequate ventilation. Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not enter storage areas and confined spaces unless adequately ventilated. Workers should wash hands and face before eating, drinking and smoking.
Storage	Keep container closed when not in use. Keep container in a well-ventilated area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection

Hand protection	Impervious butyl rubber gloves. Neoprene gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	Safety goggles. Face-shield.
Skin and body protection	Wear as appropriate: Chemical-resistant protective suit. Long sleeved clothing. Footwear protecting against chemicals.
Respiratory protection	In the case of vapor formation use a respirator with an approved filter.

Occupational Exposure Limits

<u>Component</u>	<u>Source</u>	<u>Type</u>	<u>PPM</u>	<u>MG/M3</u>	<u>Note</u>
Glutaraldehyde	NIOSH REL	C	0.2 ppm	0.8 mg/m3	
	ACGIH	C	0.05 ppm		

Engineering measures	Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. Avoid contact with skin, eyes and clothing. Remove contaminated clothing and protective equipment before entering eating areas. Wash hands before breaks and immediately after handling the product.
Protective measures	Emergency baths, showers, or other equipment appropriate for the potential level of exposure should be located close to the workstation location. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Color	Clear. colorless.
Odor	sweet, sharp
Odor Threshold	Not available.
Melting/freezing point	Not available.
Pour point	20 °F (-6.7 °C)
Boiling/condensation point	100.5 °C (213 °F)
Flash point	> 200 °F (> 93.3 °C) Pensky-Martens. closed cup

pH	3.1 - 4.5 (neat)
Solubility	Water
Relative density	1.0269 - 1.0570 at 68 °F (20.0 °C)
Vapor pressure	0.2 mmHg at 20 °C (68 °F)
Relative vapor density	0.7
Evaporation rate	Not available.
Viscosity	4 - 6 cPs
Partition coefficient: n-octanol/water	log Pow: -0.333

Note: Typical values only - not to be interpreted as sales specifications

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions.
Conditions to avoid	No specific data.
Materials to avoid	No specific data.
Hazardous decomposition products	No hazardous decomposition products are known.
Hazardous reactions	No dangerous reaction known under conditions of normal use.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

<u>Substance</u>	<u>Test</u>	<u>Species</u>	<u>Dose</u>	<u>Classification</u>
Glutaraldehyde	LD50 Oral	mouse	100 mg/kg	not applicable
	LD50 Oral	rat	134 mg/kg	not applicable
	LD50 Dermal	rat	> 2,500 mg/kg	not applicable

Irritation/Corrosion

No data is available on the product itself.

Sensitization

No data is available on the product itself.

Chronic toxicity

No data is available on the product itself.

Target organ effects

Carcinogenicity

No data is available on the product itself.
None of the components are listed.

Mutagenicity

No data is available on the product itself.

Teratogenicity

No data is available on the product itself.

Reproductive toxicity

No data is available on the product itself.

SECTION 12. ECOLOGICAL INFORMATION

Environmental effects No known significant effects or critical hazards.

Aquatic ecotoxicity

No data is available on the product itself.

Biodegradation

No data is available on the product itself.

Bioaccumulation

No data is available on the product itself.

Octanol/water partition coefficient (LogPow) log Pow: -0.333

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal Dispose of wastes in an approved waste disposal facility. Empty containers or liners may retain some product residues. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging Dispose of as unused product.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 14. TRANSPORT INFORMATION

DOT

UN Number:	3265
Description of the goods	Corrosive liquid, acidic, organic, n.o.s.(Glutaraldehyde)
Class	8
Packing group	II
Labels	8
Emergency Response	153
Guidebook Number	
Environmentally hazardous	no

IATA

UN number	3265
Description of the goods	Corrosive liquid, acidic, organic, n.o.s.(Glutaraldehyde)
Class	8
Packing group	II
Labels	8

IMDG

UN number	3265
Description of the goods	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(Glutaraldehyde)
Class	8
Packing group	II
Labels	8
Marine pollutant	no

SECTION 15. REGULATORY INFORMATION

U.S. Federal regulations

FIFRA Classification:

EPA Registration Number: 464-693-8133

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law.

Biocide Label Signal word: DANGER

Biocide Label Hazard statements: Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if inhaled. Harmful if swallowed. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals. This pesticide is toxic to fish.

CERCLA: Hazardous substances - Reportable quantity:

None of the components are listed.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Acute Health Hazard

SARA 313 - Supplier notification

None of the components are listed.

Clean Water Act (CWA) 307: None of the components are listed.

Clean Water Act (CWA) 311: None of the components are listed.

Clean Air Act (CAA) 112 accidental release prevention: None of the components are listed.

State regulations

Massachusetts Substances: The following components are listed: Glutaraldehyde

Pennsylvania RTK Hazardous Substances: The following components are listed: Glutaraldehyde

New Jersey Hazardous Substances: The following components are listed: Glutaraldehyde

California Prop. 65:

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

International regulations

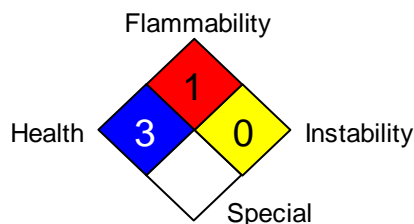
United States inventory (TSCA 8b): On TSCA Inventory

Canada inventory (DSL): All components of this product are on the Canadian DSL list.

Australia inventory (AICS) On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

National Fire Protection Association (U.S.A.):



Prepared by Product Stewardship (1-281-431-2561)

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