# Material Safety Data Sheet: BACTICIDE 45B, CM

Supercedes Date 05/18/2010

IRVING, TEXAS 75015

Issuing Date 04/15/2013

Odor Fruity

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name BACTICIDE 45B, CM Recommended use Biocidal product Information on Manufacturer CHEM-AQUA, INC BOX 152170

Product Code 0684 Chemical nature Aqueous solution **Emergency Telephone Number** CHEMTREC® 800-424-9300

#### 2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER Corrosive

Causes skin and eye burns May cause allergic skin reaction May cause delayed lung injury and burns May cause allergic respiratory reaction Harmful or fatal if swallowed

Color Colorless

Potential Health Effects Principle Route of Exposure

Primary Routes of Entry

**Acute Effects** 

Eyes

Skin

Inhalation Ingestion

**Chronic Toxicity** 

**Target Organ Effects Aggravated Medical Conditions** Potential Environmental Effects Physical State Liquid

Skin contact, Eye contact, inhalation.

Skin Absorption, Ingestion.

Corrosive to the eyes and may cause severe damage including blindness.

Causes skin burns. May cause allergic skin reaction. May be absorbed through the skin in harmful

amounts.

Harmful by inhalation. Causes burns. May cause allergic respiratory reaction.

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. May cause central nervous system effects such as headache, dizziness, weakness,

staggering gait, nausea, blurred vision, excitation, and in extreme cases, coma or death.

May cause sensitization by skin contact. May cause respiratory sensitization in some individuals . Liver

injury may occur. Contains a known or suspected reproductive toxin.

Respiratory system, Central nervous system, Immune system, Liver, Skin.

Respiratory disorders, Skin disorders, Liver disorders, Neurological disorders.

See Section 12 for additional Ecological information.

3: COMPOSITION	INFORMATION ON INGREDIENTS
Component	CAS-No
Glutaraldehyde	111-30-8

#### 4. FIRST AID MEASURES

General advice Eye Contact

Skin Contact

Inhalation

Ingestion

Notes to physician

Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist.

If in eyes, rinse with water for 15 minutes. Remove contact lenses. Call a physician or polson control

center immediately.

Take off all contaminated clothing immediately. Wash off immediately with plenty of water for at least 15

minutes. Call a physician or poison control center immediately.

Move to fresh air. Give oxygen or artificial respiration if needed. Call a physician or poison control center

Call a physician of poison control center immediately, Do NOT induce vomiting, Rinse mouth.

Aspiration hazard if swallowed - can enter lungs and cause damage. Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression,

and convulsions may be needed. May cause sensitization of susceptible persons.

# 5. FIRE-FIGHTING MEASURES

>201 °F/> 94 °C

Method

Closed cup

Autoignition Temperature No information available.

Flammability Limits in Air % Hydrogen, by reaction with metals.

Sultable Extinguishing Media

Upper 75

Lower 4

Foam, Alcohol-resistant foam, Carbon dioxide (CO2). Dry chemical, Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Contact with metals liberates flammable hydrogen gas. Material can create slippery conditions.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NEPA

Health 3

Flammability 1

Instability 0

**HMIS** 

Health 3

Flammability 1

Instability 0

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can

create slippery conditions.

**Environmental Precautions** 

Do not flush into surface water or sanitary sewer system.

**Methods for Containment** 

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)

Methods for Cleaning Up

**Neutralizing Agent** 

Pick up and transfer to properly labeled containers Not applicable.

## 7. HANDLING AND STORAGE

Handling

Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist.

Storage

Keep away from open flames, hot surfaces and sources of Ignition. Store in original container, Keep containers tightly closed in a dry, cool and well-ventilated place. Metal containers must be lined. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

Storage Temperature Storage Conditions

Minimum Indoor

25 °F / -4 °C Outdoor

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Maximum Heated

100 °F/38 °C Refrigerated

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

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Component	ACGIH TLV	OSHA PEL	NIOSH	
Glutaraldehyde	Ceiling: 0.05 ppm	No data available	Ceiling: 0.2 ppm Ceiling: 0.8 mg/m <sup>3</sup>	

Ensure adequate ventilation, especially in confined areas.

**Engineering Measures** 

Personal Protective Equipment

Eye/Face Protection

Skin Protection

Respiratory Protection

Tightly filling safety goggles. Face-shield.

Wear suitable protective clothing, Impervious gloves.

In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing

concentrations above the exposure limit they must use appropriate certified respirators.

Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the General Hygiene Considerations workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Liquid Colorless Viscosity Odor

Non viscous

Color Appearance

Transparent

вΗ

Fruity 3.1

Specific Gravity

1.12

**Evaporation Rate** 

1.0 (Butyl acetale=1)

Percent Volatile (Volume) VOC Content (g/L)

100 509

**VOC Content (%)** Vapor Pressure

45.5 0.2 mmHg @ °F

Vapor Density Boiling Point/Range 1.0 (Air = 1.0)213 °F / 101 °C Solubility

Completely soluble

### 10. STABILITY AND REACTIVITY

**Chemical Stability** 

Conditions to Avoid Incompatible Products

Hazardous Decomposition Products Possibility of Hazardous Reactions

Stable. Hazardous polymerization does not occur.

Heat, flames, and sparks

Strong oxidizing agents, Bases, Amines, Metals, Strong acids.

Carbon oxides

None under normal processing

## 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

LD50 Oral	LD50 Dermal
rat 1,330 mg/kg	rabblt 1,810 - 3,164 mg/kg

#### **Component Information**

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ιcui	e i	OXI	GHV

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Glutaraldehyde	= 66 mg/kg ( Rat )	> 2000 mg/kg ( Rat ) = 560	= 0.1 mg/L (Rat) 4 h	no data available	no data available
	,.	μL/kg (Rabbit)			

Chronic Toxicity

Ī	Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Ī	Glutaraldehyde	no data available	skin sensitization,	X	no data avallable	eyes, respiratory system,
-	,		respiratory sensitization			skin, immune system,
Ì						liver, CNS

There are no known carcinogenic chemicals in this product. Carcinogenicity

Component	ACGIH	IARC	NTP	AHSQ	Other
Glutaraldehyde	not applicable				

#### 12. ECOLOGICAL INFORMATION

## **Product Information**

Toxic to aquatic.organisms

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Glutaraldehyde	EC50 = 0,61 mg/L	LC50 7.8 - 22 mg/L Lepomis	EC50 = 13.3 mg/L 17 h	EC50= 14 mg/L 48 h EC50	0.22
1	Desmodesmus	macrochlrus 96 h	EC50 = 76.0 mg/L 5 min	0.56 - 1.0 mg/L 48 h	
	subspicatus 72 h	LC50 2.6 - 4.8 mg/L Oncorhynchus	-	·	
"	EC50 = 0.84 mg/L	mykiss 96 h		·	
	Desmodesmus	LC50 7.8 - 13 mg/L Oncorhynchus			
	subspicatus 96 h	mykiss 96 h			ļ
1		LC50 = 5.4 mg/L Pimephales promelas		1	1
		96 h			

Persistence and Degradability

Bloaccumulation

Mobility

Readily blodegradable.

No information available. No information available.

# 13. DISPOSAL CONSIDERATIONS

Product Disposal **Container Disposal**  Dispose of in accordance with local regulations.

Empty containers should be taken for local recycling, recovery, or waste disposal. Do not re-use empty

containers.

# 14, TRANSPORT INFORMATION

DOT

Proper Shipping Name

Corrosive liquid, toxic, n.o.s.

Hazard Class

6.1

8

Subsidiary Hazard Class

UN2922

UN-No

**Packing Group** 

Description

UN2922, Corrosive liquid, toxic, n.o.s., (Glularaldehyde), 8 (6.1), PG II

TDG

Proper shipping name

Corrosive liquid, toxic, n.o.s.

**Hazard Class Subsidiary Hazard Class**  8 6.1

UN-No

UN2922

**Packing Group** 

Description

UN2922, Corrosive liquid, toxic, n.o.s.,(Glutaraldehyde), 8 (6.1), PG II

ICAO

UN-No

UN2922

**Proper Shipping Name** 

Corrosive liquid, toxic, n.c.s. 8

Hazard Class **Subsidiary Hazard Class** 

6.1

**Packing Group** 

11

**Shipping Description** 

UN2922, Corrosive liquid, toxic, n.o.s., (Glutaraldehyde), 8 (6.1), PG II

IATA

UN-No

UN2922

Proper Shipping Name

Corrosive liquid, toxic, n.o.s. 8

**Hazard Class** Subsidiary Hazard Class

6.1

**Packing Group** 

UN2922, Corrosive liquid, toxic, n.o.s., (Glutaraldehyde), 8 (6.1), PG II **Shipping Description** 

IMDG/IMO

Proper Shipping Name

Corrosive liquid, toxic, n.o.s.

**Hazard Class** 

6.1

Subsidiary Hazard Class

UN2922

UN-No Packing Group

Shipping Description

UN2922, Corrosive liquid, toxic, n.o.s., (Glutaraldehyde), 8 (6.1), PG II

#### 15. REGULATORY INFORMATION

inventories

TSCA

Complies Complies

D\$L

U.S. Federal Regulations

**SARA 313** 

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	No
CERCLA				
Component Hazardous			nces RQs CERCLA EHS RQs	
01.1	1.1 - 11 -	Adoptions total		Not applicable

#### Canada

This product is exempt from WHMIS due to PCP registration

WHMIS Hazard Class

Exempt

## 16. OTHER INFORMATION

Prepared By

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Supercedes Date

05/18/2010

Issuing Date

04/15/2013

Reason for Revision Glossary

No information available. No information available.

List of References.

No Information available.

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