

MSDS: BioCode MDx 3000 Buffer A

DOCUMENT NO: DC SPC-0038 SE

DOCUMENT CATEGORY: SDS REVISION: 01 EFFECTIVE DATE: 9/7/2018

# 1. HAZARDS IDENTIFICATION

## **HMIS Classification**

CAS#	Chemical Name	Health	Flammability	Physical
		Hazard		Hazard
7647-14-5	Sodium chloride	1	0	0
7447-40-7	Potassium chloride	1	0	0
7558-79-4	Disodium hydrogen	0	0	0
	phosphate			
7778-77-0	Potassium	0	0	0
	Dihydrogen	<		
	phosphate			
9005-64-5	Tween-20	0(//	0	0
2682-20-4	ProClin-950	74	ľ	
Active	Active ingredient	3	0	0
ingredient	2-Methyl-4-			
	isothiazolin-3-one			
7732-18-5	Deionized water	0	0	0
N/A	Antifoam B			
	Emulsion	0	0	0

# **NFPA Rating**

CAS#	Chemical Name	Health	Fire	Reactivity
		Hazard		Hazard
7647-14-5	Sodium chloride	1	0	0
7447-40-7	Potassium chloride	0	0	0
7558-79-4	Disodium hydrogen	0	0	0
	phosphate			
7778-77-0	Potassium			
	Dihydrogen	0	0	0
	phosphate			
9005-64-5	Tween-20	0	0	0
2682-20-4	ProClin-950			
Active	Active ingredient	3	0	0

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ingredient	2-Methyl-4- isothiazolin-3-one			
7732-18-5	Deionized water	0	0	0
N/A	Antifoam B			
	Emulsion	0	0	0

# **Potential Health**

**Inhalation** May be harmful if inhaled.

**Skin** May be harmful if adsorbed through skin.

**Eyes** May causes eye irritation. **Ingestion** May be harmful if swallowed.

# 1. COMPOSITION/INFORMATION ON INGREDITENTS

CAS No.	Chemical Name	EC-No.	Concentration
		EINECS	
7647-14-5	Sodium chloride	231-598-3	< 1 %
7447-40-7	Potassium chloride	231-211-8	<0.1 %
7558-79-4	Disodium hydrogen	231-448-7	<0.2 %
	phosphate		
7778-77-0	Potassium dihydrogen		<0.1 %
	phosphate	231-449-2	
9005-64-5	Tween-20	EC-607	< 0.1 %
2682-20-4	ProClin-950	220-239-6	<0.1 %
Active	Active ingredient-		
ingredient	2-Methyl-4-isothiazolin-		
	3-one		
7732-18-5	Deionized water	231-791-2	>98 %
N/A	Antifoam B Emulsion	N/A	<0.1 %

## 2. FIRST AID MEASURES

## **General Advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Remove person/s from exposure or dangerous area.

## If inhaled

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If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

## In case of eye contact

Flush eyes with water as precaution.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 3. FIRE-FIGHTING MEASURES

## Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires apply water from as far as possible.

## Special protective equipment for fire-fighters

Wear self contained breathing apparatus for firefighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

## 7. HANDLING AND STORAGE

## **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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## Components with workplace control parameters

#### Sodium chloride

Contains no substances with occupational exposure limit values.

#### Potassium chloride

No OSHA Vacated PELs are listed for this chemical.

## Disodium hydrogen phosphate

Safety shower and eye bath. Mechanical exhaust required.

No OSHA Vacated PELs are listed for this chemical.

## Potassium dihydrogen phosphate

Use adequate ventilation to keep airborne concentrations low.

No OSHA Vacated PELs are listed for this chemical.

#### Tween-20

Contains no substances with occupational exposure limit value.

#### ProClin-950

Faceshields, full-face respirator(US), Gloves, Goggles, multipurpose combination respirator cartridge (US) type ABEK(EN14387) respirator filter. No occupational exposure limits established.

## **Antifoam B Emusion**

No occupational exposure limits established.

## Personal protective equipment

## Respiratory protection

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. 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.

## Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin and body protection

Impervious clothing, Flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



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## Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Appearance**

Form liquid, clear Color colorless

## Safety data

pΗ 8.0-8.6 Melting point/freezing point ~ 0 deg C > 100 dea C Boiling point Flash point not available Ignition temperature not available Lower explosion limit not available Upper explosion limit not available Vapor pressure not available Density not available

#### 10. STABILITY AND REACTIVITY

## Chemical stability

Stable under recommended storage conditions.

## Possibility of hazardous reactions

Not known under normal storage condition.

#### Conditions to avoid

Incompatible materials, excess heat

## **Hazardous decomposition products**

Other decomposition products - no data available Hazardous decomposition products formed under fire conditions. – None known.

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Oral LD50
CAS # 7647-14-5

Oral, mouse: LD50=4gm/kg Oral, rat: LD50=3000 mg/kg

CAS # 7447-40-7

Oral, mouse: LD50=1500 mg/kg

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Oral, rat: LD50=2600 mg/kg

CAS # 7558-79-4

Oral, mouse: LD50=N/A Oral, rat: LD50= 17 gm/kg

CAS # 7778-77-0

Oral, mouse: LD50=N/A Oral, rat: LD50=N/A CAS # 9005-64-5

Oral, mouse: LD50=>33 gm/kg Oral, rat: LD50= 40,554 mg/kg

CAS # 2682-20-4

Oral, mouse: LD50=N/A Oral, rat: LD50= 3600 mg/kg

#### **Antifoam B Emulsion**

No data available

Inhalation LC50 CAS # 7647-14-5

Inhalation, rat: LC50=>42 gm/m3/1H

#### CAS # 7447-40-7

May cause respiratory tract irritation

#### CAS # 7558-79-4

May cause respiratory tract irritation

#### CAS # 7778-77-0

May cause respiratory tract irritation

#### CAS # 9005-64-5

May cause respiratory tract irritation

#### CAS # 2682-20-4

May be harmful after inhalation and irritate the respiratory tract

Antifoam B Emulsion No data available

Skin corrosion/irritation

CAS # 7647-14-5

Skin, rabbit: LD50 = > 10 gm/kg

#### CAS # 7447-40-7

May cause skin irritation



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#### CAS # 7558-79-4

May be harmful if absorbed through skin. May cause skin irritation.

#### CAS # 7778-77-0

May cause skin irritation. Low hazard for usual industrial handling.

### CAS # 9005-64-5

Skin-Human-Mild skin irritation- 3d

#### CAS # 2682-20-4:

ProClin 950 is a potential sensitizer by skin contact; prolonged or repeated exposure may cause rash occurs.

Antifoam B Emulsion No data available

Serious eye damage/eye irritation

CAS # 7647-14-5

Eyes-rabbit-Mild eye irritation-Draize Test

CAS # 7447-40-7

Draize test, rabbit, eye: 500 mg/24H Wild

CAS # 7558-79-4

Draize test, rabbit, eye: 500 mg/24H Mild

CAS # 7778-77-0

May cause eye irritation

CAS # 9005-64-5

May cause eye irritation

CAS # 2682-20-4

Irritation of the skin. Danger of skin absorption. May lead to hypersensitivity.

Antifoam B Emulsion No data available

Respiratory or skin sensitization

CAS # 7647-14-5

May cause respiratory tract irritation

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CAS # 7447-40-7

May cause respiratory tract irritation

CAS # 7558-79-4

May cause respiratory tract irritation

CAS # 7778-77-0

May cause respiratory tract irritation

CAS # 9005-64-5

May cause respiratory tract irritation

CAS # 2682-20-4

May cause respiratory tract irritation

Antifoam B Emulsion No data available

Germ cell mutagenicity

CAS # 7647-14-5

No data available

CAS # 7447-40-7

Unschedule DNA Synthesis: Oral, rat= 1500 ug/kg Mutation in Mouse Lymphocyte 2048 mg/L DNA Damage in Hamster Ovary= 260 mmol/L Cytogenetic Analysis in Hamster Lung= 12 gm/L

CAS # 7558-79-4

No data available

CAS # 7778-77-0

No data available

CAS # 9005-64-5

No data available

CAS # 2682-20-4

No data available

Antifoam B Emulsion No data available

Carcinogenicity

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CAS # 7647-14-5: not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65

CAS # 7447-40-7: not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65

CAS # 7558-79-4: not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65

CAS # 7778-77-0: not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65

CAS # 9005-64-5: not listed as a carcinogen by ACG!H, IARC, NTP, or CA Prop 65

CAS # 2682-20-4: No data available

#### Antifoam B Emulsion

IARC: No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ACGIH No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

CAS # 7732-18-5: not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65

## Reproductive toxicity

CAS # 7647-14-5 No data available

CAS # 7447-40-7 No data available

CAS # 7558-79-4

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No data available

## CAS # 7778-77-0

No data available

#### CAS # 9005-64-5

Adverse reproductive effects have occurred in experimental animals.

#### CAS # 2682-20-4

No data available

Antifoam B Emulsion No data available

# Specific target organ toxicity - single exposure (Globally Harmonized System)

#### CAS # 7647-14-5

No data available

#### CAS # 7447-40-7

Target Organs: Eyes.

Cause eye irritation. May cause chemical conjunctivitis.

#### CAS # 7558-79-4

No data available

## CAS # 7778-77-0

No data available

#### CAS # 9005-64-5

None known

#### CAS # 2682-20-4

No data available

Antifoam B Emulsion

No data available

# Specific target organ toxicity - repeated exposure (Globally Harmonized System)

#### CAS # 7647-14-5

No data available

CAS # 7447-40-7

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No data available

CAS # 7558-79-4

No data available

CAS # 7778-77-0

No data available

CAS # 9005-64-5

No data available

CAS # 2682-20-4

No data available

Antifoam B Emulsion No data available

## **Aspiration hazard**

No data available

# Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

#### Additional Information

#### 12. ECOLOGICAL INFORMATION

CAS # 7647-14-5 Toxicity to fish LC50-Lepomis macrochirus (Bluegill)-1,294.6 mg/l-96 h NOEC-Pimephales promelas (fathead minnow)-4,000 mg/l-7 d

Toxicity to daphnia and other aquatic invertebrates NOEC-Daphnia- 1,500 mg/l - 7 d LC50- Daphnia magna (Water flea)- 1,661 mg/l - 48 h

CAS # 7447-40-7

No data available

CAS # 7558-79-4

No data available



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#### CAS # 7778-77-0

No data available

## CAS # 9005-64-5

Toxicity to fish LC50-other fish-350 mg/l-24 h

#### CAS # 2682-20-4

Do not allow to enter waters, waste water or soil. Highly toxic for aquatic organisms.

Due to the small size of 2 mL vial and the low concentration of hazardous ingredient in this product, risks are estimated to be minor.

Antifoam B Emulsion No data available

## Persistence and degradability

No data available

## Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### PBT and vPvB assessment

No data available

## Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATION

#### **Product**

Contact a licensed professional waste disposal service to dispose of this material.

## Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION DOT (US)

UN number:

Proper shipping name:

Reportable Quantity (RQ):

Marine pollutant:

Poison Inhalation Hazard:

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#### **IMDG**

UN number: Packing group:

EMS-No:

Marine pollutant:

IATA

UN number: na

## 15. REGULATORY INFORMATION

## **OSHA Hazards**

## **16. OTHER INFORMATION**

The above information is believed to be correct but does not claim to be all complete and shall be used only as a guide. The information in this document is based on our present knowledge and is applicable to the product with regard to appropriate safety precautions. Applied BioCode Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.