

Applied BioCode	TITLE: MSDS: Detection Buffer with Antifoam			
	DOCUMENT NO: SPC-0045	DOCUMENT CATEGORY: SDS	REVISION: 01	EFFECTIVE DATE: 9/7/2018

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Revision History

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01	Cross Reference Document 44-D0004 MSDS Ed. 01	9/7/2018

Reference

No records to display.

Current

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1. PRODUCT AND COMPANY IDENTIFICACION

Product Name: Detection Buffer with Antifoam

Product Number: 44-D0004

Company: Applied BioCode Inc.
10020 Pioneer Blvd., Ste. 102
Santa Fe Springs, CA 90670, USA

Telephone: 562-801-0050

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2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.	Chemical Name	EC-No. EINECS	Concentration %
7732-18-5	DI Water	231-791-2	~ 98.6
127087-87-0	Tergitol NP-10	500-315-8	<0.1
7647-14-5	Sodium chloride	231-598-3	< 0.8
6132-04-3	Sodium citrate tribasic dihydrate	200-675-3	<0.4
137-16-6	N-Lauroylsarcosine sodium salt	205-281-5	< 0.1
2682-20-4	ProClin 950	220-239-6	~0.1
N/A *	Antifoam B emulsion	A/A	0.01

*This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

3. HAZARDS IDENTIFICATION

HMIS Classification

CAS #	7647-14-5	6132-04-3	2682-20-4	127087-87-0	137-16-6
Health Hazard	1	0	3	0	3
Flammability	0	0	0	1	0
Physical Hazards	0	0	0	0	0

CAS #	Antifoam B emulsion
Health Hazard	0
Flammability	0
Physical Hazards	0

NFPA Rating

CAS #	7647-14-5	6132-04-3	2682-20-4	127087-87-0	137-16-6
Health Hazard	1	0	3	0	3
Fire	0	0	0	1	0
Reactivity Hazard	0	0	0	0	0

CAS #	Antifoam B emulsion
Health Hazard	0

Fire	0
Reactivity Hazard	0

Potential Health Effects**Inhalation**

May be harmful if inhaled.

Skin

May be harmful if absorbed through skin.

Eyes

May causes eye irritation.

Ingestion

May be harmful if swallowed.

4. 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

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 irritation develops, get medical aid.

If swallowed

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

5. 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**

Wear appropriate protective gloves and eye protection to prevent 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

Applied BioCode	TITLE: MSDS: Detection Buffer with Antifoam			
	DOCUMENT NO: SPC-0045	DOCUMENT CATEGORY: SDS	REVISION: 01	EFFECTIVE DATE: 9/7/2018

Components with workplace control parameters

Sodium chloride

Contains no substances with occupational exposure limit values.

Sodium citrate tribasic dihydrate

Contains no substances with occupational exposure limit values.

N-Lauroylsarcosine sodium salt

Contains no substances with occupational exposure limit values.

Tergitol NP-10

No known OSHA hazards.

ProClin 950

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, cough, wheezing, laryngitis, shortness of breath, headacche, nausea, vomiting.

Antifoam B emulsion (10 % aqueous emulsion of Antifoam A concentrate)

Contains no substances with occupational exposure limit values.

Handle in accordance with good industrial hygiene and safety practice.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN14387) respirator cartridge as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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.

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
Color	colorless

Safety data

Melting point/freezing point not available

Applied BioCode	TITLE: MSDS: Detection Buffer with Antifoam			
	DOCUMENT NO: SPC-0045	DOCUMENT CATEGORY: SDS	REVISION: 01	EFFECTIVE DATE: 9/7/2018

Boiling point	not available
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
Water solubility	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

Materials to avoid

Avoid working in dirty environment which may cause solution to become turbid.

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 # 6132-04-3

IPR-Rat: LD50 = 1548 mg/kg

CAS # 127087-87-0

LD50Oral-rat-16,000 mg/kg

CAS # 2682-20-4

No data available

CAS # 137-16-6

No data available

Antifoam B emulsion

No data available

Inhalation LC50:

CAS # 7647-14-5

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

CAS # 6132-04-3

LC50: Not tested

May be harmful if inhaled.

Applied BioCode	TITLE: MSDS: Detection Buffer with Antifoam			
	DOCUMENT NO: SPC-0045	DOCUMENT CATEGORY: SDS	REVISION: 01	EFFECTIVE DATE: 9/7/2018

CAS # 127087-87-0
No data available

CAS # 2682-20-4
No data available

CAS # 137-16-6
LC50 Inhalation-rat-4h- 0.05-0.5 mg/L

Antifoam B emulsion
No data available

Skin corrosion/irritation:

CAS # 7647-14-5
Skin, rabbit: LD50 = > 10 gm/kg

CAS # 6132-04-3
No irritant effect.

CAS # 127087-87-0
LD50 Dermal-rabbit-4,490 mg/kg

CAS # 2682-20-4
No data available

CAS # 137-16-6
No data available

Antifoam B emulsion
No data available

Serious eye damage/eye irritation:

CAS # 7647-14-5
Eyes-rabbit-Mild eye irritation-Draize Test

CAS # 6132-04-3
No relevant irritating effects.

CAS # 127087-87-0
Severe corneal injury (0.5 mL; 5 % dilution)

CAS # 2682-20-4
No data available

CAS # 137-16-6
May cause eye irritation

Antifoam B emulsion
No data available

Respiratory or skin sensitization:

CAS # 7647-14-5
May cause respiratory tract irritation

Applied BioCode	TITLE: MSDS: Detection Buffer with Antifoam			
	DOCUMENT NO: SPC-0045	DOCUMENT CATEGORY: SDS	REVISION: 01	EFFECTIVE DATE: 9/7/2018

CAS # 6132-04-3

Inhalation of large amounts of dust may cause irritation to the respiratory tract.

CAS # 127087-87-0

No irritation

CAS # 2682-20-4

May cause allergic skin reaction

CAS # 137-16-6

No data available

Antifoam B emulsion

No data available

Germ cell mutagenicity:

CAS # 7647-14-5

No data available

CAS # 6132-04-3

No data available

CAS # 127087-87-0

No data available

CAS # 2682-20-4

No data available

CAS # 137-16-6

No data available

Antifoam B emulsion

No data available

Carcinogenicity:

CAS # 7647-14-5:

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65

CAS # 6132-04-3:

Not listed as a carcinogen by IARC, NTP or OSHA.

CAS # 127087-87-0

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.

CAS # 2682-20-4

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.

Applied BioCode	TITLE: MSDS: Detection Buffer with Antifoam			
	DOCUMENT NO: SPC-0045	DOCUMENT CATEGORY: SDS	REVISION: 01	EFFECTIVE DATE: 9/7/2018

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.

CAS # 137-16-6: 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 IARC, ACGIH, NTP, or by OSHA.

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

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

Reproductive toxicity:

CAS # 7647-14-5
No data available

CAS # 6132-04-3
No data available

127087-87-0
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

2682-20-4
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

CAS # 137-16-6
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 # 6132-04-3
No data available

CAS # 127087-87-0
No data available

CAS # 2682-20-4
No data available

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	DOCUMENT NO: SPC-0045	DOCUMENT CATEGORY: SDS	REVISION: 01	EFFECTIVE DATE: 9/7/2018

CAS # 137-16-6
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 # 6132-04-3
No data available

CAS # 127087-87-0
No data available

CAS # 2682-20-4
No data available

CAS # 137-16-6
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.

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 # 6132-04-3
No further relevant information available.

CAS # 127087-87-0
No data available

CAS # 2682-20-4
No data available

CAS # 137-16-6
No data available

Antifoam B emulsion

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	DOCUMENT NO: SPC-0045	DOCUMENT CATEGORY: SDS	REVISION: 01	EFFECTIVE DATE: 9/7/2018

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. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION DOT (US)

UN number: NA
Proper shipping name: Not regulated as a hazardous material.
Reportable Quantity (RQ): NA
Marine pollutant: NA
Hazard Class: Non-Hazardous

IMDG

UN number: NOT LISTED, REF FS0002
Packing group: NA
EMS-No: NA
Marine pollutant: NA

IATA

UN number: NOT LISTED, REF FS0002

15. REGULATORY INFORMATION

OSHA Hazards – None of the chemicals in this product are considered highly hazardous.

16. OTHER INFORMATION

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