Phone: +47 55 54 39 66 Fax: +47 55 54 37 71

MATERIAL SAFETY DATA SHEET

Prod. No.: **V01004401**

Name: Rainbow trout Vitellogenin EIA-kit

Hazards identified with this product are those associated with the following components. Refer to the material safety data sheets for the listed items.

Component name:

Coating buffer capsule Tween 20 Phosphate buffered saline (PBS) tablets Blocking/Dilution buffer, concentrated 10 Ellman's reagent

Multiple component spill or leak procedures

Steps to be taken if material is released or spilled

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Sweep up, place in a bag and hold for waste disposal.

Do no allow to enter drinking water supplies, waste water or soil.

Avoid raising dust.

Ventilate area and wash spill site after material pickup is complete.

Waste disposal method

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state and local environmental regulations.

Label precautionary statements

May be harmful by inhalation, ingestion or skin absorption

Irritating to eyes, respiratory system and skin.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves and eye protection.

Do no breathe dust.

Other information

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Version 2: BMN 09.04.02

Supersedes version of: 04.07.01

Reason for alteration: Changes in: Product No, Component list

Phone: +47 55 54 39 66 Fax: +47 55 54 37 71

MATERIAL SAFETY DATA SHEET

Coating buffer (Carbonate/Bicarbonate) capsules

Section 1. Product information

Product name: COATING BUFFER (CARBONATE/BICARBONATE) CAPSULES

Section 2. Composition/Information on Ingredients

CARBONATE/BICARBONATE BUFFER: CAS #: None EC no: None

Information regarding the specific chemical identity of this material is being withheld as a trade secret of the manufacturer.

Ingredients:

SODIUM BICARBONATE: CAS # 144-55-8 EC no: 205-633-8 SODIUM CARBONATE (ANHYDROUS) CAS # 497-19-8 EC no: 207-838-8

Section 3. Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Risk of serious damage to eyes.

Irritating to respiratory system and skin.

Section 4. First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of skin contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Section 5. Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

SPECIAL RISKS

Specific hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust.

Ventilate area and wash spill site after material pickup is complete.

Section 7. Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

Section 8. Exposure controls/Personal protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

Section 9. Physical and Chemical Properties

Appearance: Physical State: Solid

Section 10. Stability and Reactivity

STABILITY

Stable

MATERIALS TO AVOID

Strong oxidising agents

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, Carbon dioxide, Sodium/sodium oxides

HAZARDOUS POLYMERIZATION

Will not occur

Section 11. Toxicological information

SIGNS AND SYMPTOMS OF EXPOSURE

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

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes severe eye irritation.

Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be

harmful if inhaled.

Ingestion: May be harmful if swallowed

Section 12. Ecological information

No data available

Section 13. Disposal considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

Section 14. Transport information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport

Section 15. Regulatory information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xi

Irritant.

R-PHRASES: 41 37/38

Risk of serious damage to eyes. Irritating to respiratory system and skin.

S-PHRASES: 26 36/37/39

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection.

Section 16. Other information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biosense Laboratories AS shall not be held liable for any damage resulting from handling or from contact with the above product.

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Version 2: BMN 13.01.05

Supersedes version of (date): 04.07.01

Phone: +47 55 54 39 66 Fax: +47 55 54 37 71

MATERIAL SAFETY DATA SHEET

Tween 20

Section 1. Chemical Identification

Product name: Tween 20

Section 2. Composition/Information on Ingredients

CAS #: 9005-64-5

Synonyms:

Armotan PML-20 * CAPMUL * DXEWMULSE POE-SML * EMSORB 6915 * Glycosperse L-20 * Glycosperse L-20X * HODAG PSML-20 * Liposorb L-20 * POE 20 Sorbitan monolaurate * Polyoxyethylene (20) Sorbitan monolaurate * Protasorb L-20 * PSML * Sorbimacrogol laurate 300 * Sorbitan, monododecanote, poly(oxy-1,2-ethanediyl) derivatives * Tween 20 *

Section 3. Hazards Identification

Data not available

Section 4. First Aid Measures

In case of contact with eyes, immediately flush eyes with copious amounts of water for at least 15 minutes.

In case of skin contact, immediately wash skin with soap and copious amounts of water.

If inhaled, remove to fresh air. If not breathing give artificial rspiration. If breathing is difficult, give oxygen.

If swallowed, wash out mouth with water provided person is conscious.

Call a physician.

Wash contaminated clothing before reuse.

Section 5. Fire Fighting Measures

Extinguishing media:

Water spray.

Carbon dioxide, dry chemical powder or appropriate foam.

Special firefighting procedures:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosions hazards:

Emits toxic fumes under fire conditions.

Section 6. Accidental Release Measures

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Cover with dry lime or soda ash, pick up, keep in a closed container and hold for waste disposal.

Ventilate area and wash spill site after material pickup is complete.

Section 7. Handling and Storage

Refer to section 8.

Section 8. Exposure controls/Personal protection

Chemical safety goggles.

Compatible chemical-resistant gloves.

NIOSH/MSHA-approved respirator.

Safety shower and eye bath.

Mechanical exhaust required.

Do not breathe vapor.

Do not get in eyes, on skin, on clothing.

Avoid prolonged or repeated exposure.

Wash thoroughly after handling.

Keep tightly closed.

Store in a cool dry place.

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Section 9. Physical and Chemical Properties

Appearance and odor: Viscous light yellow liquid

Physical properties:

Flashpoint >230 F

>109 C

Specific gravity: 1.095

Section 10. Stability and Reactivity

Stability:

Stable

Incompatibilities:

Strong oxidising agents

Hazardous combustion or decomposition products:

Toxic fumes of:

Carbon monoxide, carbon dioxide

Hazardous polymerization:

Will not occur

Section 11. Toxicological information

Acute effects:

May be harmful by inhalation, ingestion, or skin absorption.

May cause irritation.

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

RTECS # TR7400000

Polysorbate 20

Irritation data:

SKN-HMN 15 mg/3D-I MLD 85 DKA8 -,127,1977

Toxicity data:

ORL-RAT LD50: $36700~\mu l/kg$ FOREAE 21, 348,1956 IPR-RAT LD50: 3850~mg/kg ARZNAD 26,1581,1976 IVN-RAT LD50: 770~mg/kg ARZNAD 26,1581,1976 ARZNAD 26,1581,1976 IPR-MUS LD-50: 2640~mg/kg ARZNAD 26,1581,1976 IVN-MUS LD50: 1420~mg/kg RPOBAR 2, 316, 1970 ORL-HAM LD50: 18~ml/kg FOREAE 21, 348,1956

Target organ data:

Specific developmental abnormalities (musculoskeletal system)

Specific developmental abnormalities (other developmental abnormalities)

Only selected registry of toxic effects of chemical substances (RTECS) data is presented here. See actual entry in RTECS for complete information

Section 12. Ecological information

Data not yet available

Section 13. Disposal considerations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state and local environmental regulations.

Section 14. Transport information

Contact Biosense Laboratories AS for transportation information

Section 15. Regulatory information

European information

CAUTION: Substance not yet fully tested

Reviews, standards, and regulations

OEL=MAK

EPA FIFRA 1988 Pesticide subject to registration or re-registration FEREAC 54, 7740,1989.

NOES 1983: HZD X6874; NIS 22; TNF 5475; NOS 48; TNE 161625; TFE 125776

EPA TSCA Section 8 (B) Chemical inventory

EPA TSCA Section 8 (D) Unpublished health/Safety studies

EPA TSCA test submission (TSCATS) data base, December 1999.

Section 16. Other information

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Version 1: BMN 04.07.01

Supersedes version of (date): None

Reason for alteration: Changes in Section: None

Phone: +47 55 54 39 66 Fax: +47 55 54 37 71

MATERIAL SAFETY DATA SHEET

Phosphate buffered saline (PBS) tablets

Section 1. Chemical Identification

Product name: Phosphate buffered saline (PBS) tablet

Section 2. Composition/Information on Ingredients

Product Name CAS # EC no Annex I

Index Number

PHOSPHATE BUFFERED SALINE None None None

Section 3. Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Not hazardous according to Directive 67/548/EC.

Section 4. First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Section 5. Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7. Handling and Storage

HANDLING

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Store in cool dry place

Section 8. Exposure controls/Personal protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Wear dust mask. Hand Protection: Protective gloves. Eye Protection: Chemical safety goggles.

Section 9. Physical and Chemical Properties

Appearance and odor: Tablet

Section 10. Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents, Strong acids, Reacts violently with bromine trifluoride and lithium.

Conditions to avoid: Exposure to direct sunlight. Exposure to water or moisture.

HAZARDOUS DECOMPOSITION PRODUCTS

Nature of decomposition products not known

HAZARDOUS POLYMERIZATION

Will not occur

Section 11. Toxicological information

ACUTE TOXICITY

Low order of acute toxicity.

Oral LD50 (rat) > 2000 mg/kg

Dermal LD50 (rabbit) > 2000 mg/kg

Inhalation LC50 (rat) >20 mg/litre/4h

SIGNS AND SYMPTOMS OF EXPOSURE

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

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes

and upper respiratory tract.

Ingestion: May be harmful if swallowed.

Section 12. Ecological information

No data available

Section 13. Disposal considerations

Nonhazardous waste. Dispose according to all federal, state and local applicable regulations. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.

Section 14. Transport information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

Section 15. Regulatory information

Not hazardous according to Directive 67/548/EC.

Section 16. Other information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biosense Laboratories AS shall not be held liable for any damage resulting from handling or from contact with the above product.

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Version 2: MWI 02.02.05

Supersedes version of (date): 04.07.01

Reason for alteration: Changes in Section: 3, 6, 11, 14, 15

Phone: +47 55 54 39 66 Fax: +47 55 54 37 71

MATERIAL SAFETY DATA SHEET Blocking/Dilution buffer, 10□

Section 1. Chemical Identification

Product name: Blocking/Dilution buffer, concentrated 10□

Section 2. Composition/Information on Ingredients

Hazardous Components (Specific Chemical Identity / Common Name) Ⅲ	CAS #	Percentage
Potassium phosphate, dibasic	7758-11-4	13.3
Potassium phosphate	7778-77-0	3.21
Sodium azide (NaN ₃)	26628-22-8	0.5
Sodium chloride	7647-14-5	24.15
Water	7732-18-5	

Section 3. Hazards Identification

Harmful if swallowed.

Contact may cause skin or eye irritation.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 4. First Aid Measures

If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. If inhaled remove to fresh air. In severe cases, obtain medical attention. In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel. In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Section 5. Fire Fighting Measures

Extinguishing media

Use alcohol foam, carbon dioxide, or water spray

Unusual fire and explosions hazards:

Emits toxic fumes under fire conditions (NOx).

Special firefighting procedures

As in any fire, wear self-contained breathing apparatus and protective clothing.

Section 6. Accidental Release Measures

Absorb the liquid and scrub the area with detergent and water.

Hold waste for waste disposal

Section 7. Handling and Storage

Precautions To Be Taken in Handling and Storing:

Avoid breathing (dust, vapor, mist, gas)

Avoid contact with eyes, skin, and clothing.

Do not reuse this container.

Use with adequate ventilation.

Wash thoroughly after handling.

Section 8. Exposure controls/Personal protection

Ventilation:

Good general ventilation should be sufficient to control airborne levels.

Eve Protection:

Safety glasses

Protective Gloves:

Latex disposable gloves

Other Protective Clothing:

Lab coat

Work/Hygienic/Maintenance Practices:

Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Section 9. Physical and Chemical Properties

Appearance and odor:

A clear colourless solution

pH: 7.4

Section 10. **Stability and Reactivity**

Stability:

Stable

Hazardous combustion or decomposition products:

NOx

Hazardous polymerization:

Will not occur

Section 11. **Toxicological information**

To the best of our knowledge, the toxicological properties of this product have not been fully investigated. The following refers to the toxic ingredient(s) of the product. Other harmful effects can not be excluded

After inhalation: Irritating to the nose, throat and respiratory tract

After eye contact: Irritation

After skin contact: Irritation. Risk of skin absorption

After ingestion: Risk of absorption.

Systemic effects: cardiovascular disorders, CNS-disorders,

diarrhoea, tiredness. Toxic effects on kidneys.

Ecological information Section 12.

Quantitative data about ecological effects of this product is not yet available.

The following refers to the toxic ingredient(s) of the product:

Harmful for aquatic organisms.

May cause long-term adverse effects in the aquatic environment

Do not allow to enter drinking water supplies, waste water, or soil.

Section 13. Disposal considerations

Dispose in accordance with local, state and federal regulations.

Section 14. **Transport information**

Contact Biosense Laboratories AS for transportation information

Section 15. Regulatory information

European information

CAUTION: Substance not yet fully tested

Symbol:

Xn

R-phrases: R 22-52/53

Harmful by ingestion

Harmful for aquatic organisms.

May cause long-term adverse effects in the aquatic environment

S-phrases: S 61

Avoid release to the environment.

Refer to special instructions/Safety data sheets.

Section 16. Other information

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Version 2: BMN 24.05.02

Supersedes version of (date): 09.04.02

Reason for alteration: Changes in Section: 2

Phone: +47 55 54 39 66 Fax: +47 55 54 37 71

MATERIAL SAFETY DATA SHEET

Ellman's Reagent

Section 1. Chemical Identification

Product name: Ellman's Reagent

Section 2. Composition/Information on Ingredients

Hazardous Components		
(Specific Chemical Identity/Common Name)	CAS #	Percentage
5,5'-Dithiobis-(2-nitrobenzoic acid)	69-78-3 Ⅲ	10.164
Acetylthiocholine iodide	1866-15-5	5.082
Sodium chloride	<i>7647-14-5</i> □	28.799
Potassium phosphate, dibasic	7758- 11 - 4	45.062
Potassium phosphate	7778-77-0 📖	10.893
Potassium phosphate	7778-77-0 🖽	

Section 3. Hazards Identification

Health Hazards (Acute and Chronic):

Causes eye and skin irritation.

Irritating to the mucous membranes and the upper respiratory tract. The toxicological properties of this compound have not been fully evaluated. Carcinogenicity: NTP? No , IARC Monographs? No , OSHA Regulated? No Signs and Symptoms Of Exposure:

Irritating to the nose, throat and respiratory tract.

Hazard Label Information:

Avoid contact with skin and eyes. □

Do not reuse this container.

Use with adequate ventilation.

Wash thoroughly after handling.

Section 4. First Aid Measures

If inhaled remove to fresh air.

If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

If swallowed, wash out mouth with water provided person is conscious.

Never give anything by mouth to an unconscious person. Get medical attention. In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel. In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Section 5. Fire Fighting Measures

Extinguishing media

Use alcohol foam, carbon dioxide, or water spray

Special firefighting procedures

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

Unusual fire and explosions hazards:

Emits toxic fumes under fire conditions.

Section 6. Accidental Release Measures

Vacuum or sweep up material and place in disposal container. After removal, flush contaminated area thoroughly with water.

Section 7. Handling and Storage

Precautions To Be Taken in Handling and Storing:

Avoid breathing (dust, vapor, mist, gas).

Avoid contact with eyes, skin, and clothing.

Do not reuse this container.

Keep away from food and drinking water.

Store at correct temperature.

Store away from oxidizers.

Use with adequate ventilation.

Wash thoroughly after handling

Section 8. Exposure controls/Personal protection

Ventilation:

Good general ventilation should be sufficient to control airborne levels.

Eye Protection:

Safety glasses

Protective Gloves:

Latex disposable gloves

Other Protective Clothing:

Lab coat

Work/Hygienic/Maintenance Practices:

Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Section 9. Physical and Chemical Properties

Appearance and odor: A lyophilized powder

Section 10. Stability and Reactivity

Stability:

Stable

Incompatibilities-Materials to avoid:

oxidizing materials

strong bases

Hazardous decomposition or byproducts:

carbon dioxide

carbon monoxide

nitrogen oxides

sulfur oxides

hydrogen iodide

Hazardous polymerization:

Will not occur

Section 11. Toxicological information

Acute effects:

May be harmful by inhalation, ingestion, or skin absorption.

Causes eye and skin irritation.

Irritating to mucous membranes and upper respiratory tract.

To the best of our knowledge, the toxicological properties of this compound have not been fully investigated.

Section 12. Ecological information

Data not yet available

Section 13. Disposal considerations

Dispose in accordance with local, state and federal regulations.

Section 14. Transport information

Contact Biosense Laboratories AS for transportation information

Section 15. Regulatory information

European information

CAUTION: Substance not yet fully tested

Irritant. R 36/37/38 Irritating to eyes, respiratory system and skin.

S 22

Do not breathe dust

S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36

Wear suitable protective clothing

Section 16. Other information

For research use only, not for human or veterinary clinical use.

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Version 1: BMN 04.07.01

Supersedes version of (date): None

Reason for alteration: Changes in Section: None