

# Material Safety Statement

For VisuLize™ Buffer Pak

**Product Name:** VisuLize™ Buffer Pak

**Catalogue Number:** EIA-PAK-1

**Use of Product:** This product is for research use only.

The hazards identified with this product are those associated with the following components:

Coating Buffer	EIA-PAK-1-3
Blocking Buffer	EIA-PAK-1-4
20X Wash Buffer	EIA-PAK-1-5
5X HBS-BSA-T20	EIA-PAK-1-6
Substrate Buffer	EIA-PAK-1-7
OPD Tablets	EIA-PAK-1-8

Refer to attached SAFETY DATA SHEETS for each of the listed components.

It is advisable to follow standard laboratory practices when handling components packaged with this product.

The above statements are provided for informational use only and are believed to be correct. Affinity Biologicals Inc. shall not in any event be liable for incidental, consequential, third party or special damages of any kind resulting from any handling, use or failure of the products or above information.

# SAFETY DATA SHEET

## For Coating Buffer

### IDENTIFICATION

**Supplier:** Affinity Biologicals Inc.  
1348 Sandhill Drive  
Ancaster, ON L9G 4V5 Canada  
Telephone: 905-304-9896, 1-800-903-6020 (in Canada and the United States)  
Fax: 905-304-9897  
**Emergency Telephone: 905-304-9896**

**Product Name:** VisuLize™ Buffer Pak – Coating Buffer  
**Catalogue Number:** EIA -PAK-1-3  
**Product use:** For research use only

### HAZARDS IDENTIFICATION

Non-hazardous liquid. This product is non-flammable. May cause eye irritation (mild to severe) in some individuals. Potential environmental effects are not available.

**Hazards Identification:** The hazards identified with this product are those associated with the preservatives. Though complete toxicity information is not available, none of its components are known to be toxic or hazardous at use concentrations. Product is an aqueous mixture which contains the mercury-free preservatives methylisothiazolone and bromonitrodioxane, which can produce adverse health effects in their concentrated forms. For more specific toxicity information on these components, refer to SDSs available from Sigma-Aldrich

### COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous Ingredient:** Coating Buffer

**CAS registry number (methylisothiazolone):** 26172-54-3

**CAS registry number (bromonitrodioxane):** 30007-47-7

**LD<sub>50</sub> (species and route):** Not available

**LC<sub>50</sub> (species and route):** Not available

### FIRST AID MEASURES

**Eye Contact:** Flush thoroughly with water or normal saline, lifting the upper and lower lids occasionally, until no evidence of chemical remains (~15 minutes). Seek medical advice if irritation develops.

**Skin Contact:** Remove contaminated clothing and wash with water and soap. No adverse acute effects are expected via this route of entry.

**Inhalation:** No special first aid measures necessary; inhalation or aspiration unlikely

**Ingestion:** No data on ingestion of the material is available. Extremely large oral doses may cause gastrointestinal disturbance. If swallowed, contact medical staff or poison control to determine if any immediate response or follow-up actions are recommended.

### FIRE FIGHTING MEASURES

**Conditions of flammability:** Non-flammable

**Means of extinction - suitable:** Use extinguishing media appropriate for surrounding fire conditions

**Means of extinction - not suitable:** Not available

**Protective Equipment:** When extinguishing fires use breathing apparatus with an independent source of air

**Upper flammable limit:** Not available

**Lower flammable limit:** Not available

**Flash Point and method of determination:** Not available

**Auto-ignition temperature:** Not available

**Hazardous combustion products:** Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides

**Explosion data-sensitivity to mechanical impact:** Not available

**Explosion data-sensitivity to static charge:** Not available

**Special risks in a fire situation:** None

### ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear suitable laboratory protective clothing

**Waste disposal:** Do not contaminate soil, groundwater, or surface water. Observe all federal, state and local laws when considering waste disposal method.

**Procedure to be followed in case of leak or spill:** Wear protective equipment. Absorb spill with inert material and then place in a disposal container. Wash area thoroughly with soap and water.

### HANDLING AND STORAGE

**Handling procedures and equipment:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Safety shower and eyewash station near location of use.

**Storage requirements:** Store at 2-8°C

### EXPOSURE CONTROLS / PERSONAL PROTECTION

**Specific engineering controls to be used:** Not applicable (not respirable as a liquid)

**Personal protective equipment to be used:**

**Eye:** Wear safety goggles when risk of splashes;

**Skin:** wear lab coat and gloves of plastic or rubber when risk of contact

**Respiratory:** none

### PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid

**Odour & appearance:** Odourless, clear, amber-coloured liquid

**Odour threshold:** Not available

**Specific gravity:** Not available

**Vapour Pressure:** Not available

**Vapour density:** Not available

**Evaporation rate:** not available

**Boiling point:** 100°C

**Freezing point:** Not available

**pH:** 6.2-6.7

**Coefficient of water/oil distribution:** Not available

**Density (g/ml) at 20°C:** Not available

**Solubility in Water:** Complete

### STABILITY AND REACTIVITY

**Conditions under which the product is chemically unstable:** Product is stable at normal temperatures and storage conditions.

**Incompatibilities:** None known

**Conditions of reactivity:** None known

**Hazardous decomposition products:** Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides.

**Hazardous Polymerization:** Will not occur

### TOXICOLOGICAL INFORMATION

**Route of entry:** May be absorbed through ingestion

**Effects of acute exposure to product:**

**Eye:** May give irritation

**Skin:** Not available

**Inhalation:** Inhalation is not possible when used as recommended

**Ingestion:** Not available

**Effects of chronic exposure to product:** Not available

**Exposure limits:** Not available

**Irritancy of product:** see above

**Sensitization to product:** Not available

**Carcinogenicity:** Not available

**Reproductive toxicity:** Not available

**Teratogenicity:** Not available

**Mutagenicity:** Not available

**Name of toxicologically synergistic products:** Not available

**ECOLOGICAL INFORMATION**

No data available.

**DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Do not contaminate soil, groundwater, or surface water. Disposal should be according to local, state or national legislation.

**TRANSPORT INFORMATION**

**Special shipping information:** None required (non-regulated and non-hazardous for transport)

**REGULATORY INFORMATION**

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the SDS contains all the information required by the *Controlled Products Regulations*.

**OTHER INFORMATION**

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Prepared at Affinity Biologicals by the Quality Assurance department using SDS data from supplier of raw material. Address any questions to Affinity Biologicals at (800) 903-6020.

Date of preparation of the SDS: March 15, 2016

# SAFETY DATA SHEET

For Blocking Buffer, 20X PBS-Tween,  
5X HBS-BSA-T20 Diluent, Substrate Buffer

## IDENTIFICATION

**Supplier:** Affinity Biologicals Inc.  
1348 Sandhill Drive  
Ancaster, ON L9G 4V5 Canada  
Telephone: 905-304-9896, 1-800-903-6020 (in Canada and the United States)  
Fax: 905-304-9897  
**Emergency Telephone: 905-304-9896**

**Product Name:** VisuLize™ Buffer Pak  
**Catalogue Number:** EIA-PAK-1-4,5,6,7  
**Product use:** For research use only

## HAZARDS IDENTIFICATION

Non-hazardous liquid. This product is non-flammable. May cause eye irritation (mild to severe) in some individuals. Potential environmental effects are not available.

## COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous Ingredient:** Blocking Buffer, 20X PBS-Tween, 5X HBS-BSA-T20 Diluent, Substrate Buffer

**Hazards Identification:** The hazards identified with these components are those associated with the preservative. Though complete toxicity information is not available, none of its components are known to be toxic or hazardous at use concentrations. Each listed component is an aqueous mixture which contains the mercury-free preservative PROCLIN™-300, which can produce adverse health effects in concentrated form. For more specific toxicity information on the preservative, refer to the SDS available from Sigma-Aldrich.

VISULIZE-PAK-1 Component	Component Identifier
Blocking Buffer	VISULIZE-PAK-1-4
20X PBS-Tween	VISULIZE-PAK-1-5
5X HBS-BSA-T20 Diluent	VISULIZE-PAK-1-6
Substrate Buffer	VISULIZE-PAK-1-7

**CAS registry number:** Not available  
**LD<sub>50</sub> (species and route):** Not available  
**LC<sub>50</sub> (species and route):** Not available

## FIRST AID MEASURES

**Eye Contact:** Flush thoroughly with water or normal saline, lifting the upper and lower lids occasionally, until no evidence of chemical remains (~15 minutes). Seek medical advice if irritation develops.

**Skin Contact:** Remove contaminated clothing and wash with water and soap. No adverse acute effects are expected via this route of entry.

**Inhalation:** No special first aid measures necessary; inhalation or aspiration unlikely

**Ingestion:** No data on ingestion of the material is available. Extremely large oral doses may cause gastrointestinal disturbance. If swallowed, contact medical staff or poison control to determine if any immediate response or follow-up actions are recommended.

### FIRE FIGHTING MEASURES

**Conditions of flammability:** Non-flammable

**Means of extinction - suitable:** Use extinguishing media appropriate for surrounding fire conditions

**Means of extinction – not suitable:** Not available

**Protective Equipment:** When extinguishing fires use breathing apparatus with an independent source of air

**Upper flammable limit:** Not available

**Lower flammable limit:** Not available

**Flash Point and method of determination:** Not available

**Auto-ignition temperature:** Not available

**Hazardous combustion products:** Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides

**Explosion data-sensitivity to mechanical impact:** Not available

**Explosion data-sensitivity to static charge:** Not available

**Special risks in a fire situation:** None

### ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear suitable laboratory protective clothing

**Waste disposal:** Do not contaminate soil, groundwater, or surface water. Observe all federal, state and local laws when considering waste disposal method.

**Procedure to be followed in case of leak or spill:** Wear protective equipment. Absorb spill with inert material and then place in a disposal container. Wash area thoroughly with soap and water.

### HANDLING AND STORAGE

**Handling procedures and equipment:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Safety shower and eyewash station near location of use.

**Storage requirements:** Store at 2-8°C

### EXPOSURE CONTROLS / PERSONAL PROTECTION

**Specific engineering controls to be used:** Not applicable (not respirable as a liquid)

**Personal protective equipment to be used:**

**Eye:** Wear safety goggles when risk of splashes;

**Skin:** wear lab coat and gloves of plastic or rubber when risk of contact

**Respiratory:** none

### PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid

**Odour & appearance:** Odourless, clear, amber-coloured liquid

**Odour threshold:** Not available

**Specific gravity:** Not available

**Vapour Pressure:** Not available

**Vapour density:** Not available

**Evaporation rate:** not available

**Boiling point:** 100°C

**Freezing point:** Not available

**pH:** 6.2-6.7

**Coefficient of water/oil distribution:** Not available

**Density (g/ml) at 20°C:** Not available

**Solubility in Water:** Complete

**STABILITY AND REACTIVITY**

**Conditions under which the product is chemically unstable:** Product is stable at normal temperatures and storage conditions.

**Incompatibilities:** None known

**Conditions of reactivity:** None known

**Hazardous decomposition products:** Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides.

**Hazardous Polymerization:** Will not occur

**TOXICOLOGICAL INFORMATION**

**Route of entry:** May be absorbed through ingestion

**Effects of acute exposure to product:**

**Eye:** May give irritation

**Skin:** Not available

**Inhalation:** Inhalation is not possible when used as recommended

**Ingestion:** Not available

**Effects of chronic exposure to product:** Not available

**Exposure limits:** Not available

**Irritancy of product:** see above

**Sensitization to product:** Not available

**Carcinogenicity:** Not available

**Reproductive toxicity:** Not available

**Teratogenicity:** Not available

**Mutagenicity:** Not available

**Name of toxicologically synergistic products:** Not available

**ECOLOGICAL INFORMATION**

No data available.

**DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Do not contaminate soil, groundwater, or surface water. Disposal should be according to local, state or national legislation.

**TRANSPORT INFORMATION**

**Special shipping information:** None required (non-regulated and non-hazardous for transport)

**REGULATORY INFORMATION**

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the SDS contains all the information required by the *Controlled Products Regulations*.

**OTHER INFORMATION**

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Prepared at Affinity Biologicals by the Quality Assurance department using SDS data from supplier of raw material. Address any questions to Affinity Biologicals at (800) 903-6020.

Date of preparation of the SDS: March 15, 2016

# SAFETY DATA SHEET

## For OPD Tablets

### IDENTIFICATION

**Supplier:** Affinity Biologicals Inc.

1348 Sandhill Drive  
 Ancaster, ON L9G 4V5 Canada  
 Telephone: 905-304-9896, 1-800-903-6020 (in Canada and the United States)  
 Fax: 905-304-9897  
**Emergency Telephone: 905-304-9896**

**Product Name:** VisuLize™ Buffer Pak – OPD Tablets

**Catalogue Number:** EIA-PAK-1-8

**Product use:** For research use only.

### HAZARDS IDENTIFICATION

#### Emergency Overview

##### Target Organs

Liver, Bladder

##### WHMIS Classification

D1B Toxic Material Causing Immediate and Serious Toxic Effects	Toxic by ingestion
D2A Very Toxic Material Causing Other Toxic Effects	Toxic by inhalation.
D2B Toxic Material Causing Other Toxic Effects	Carcinogen
	Moderate eye irritant
	Skin sensitizer
	Mutagen

##### GHS Classification

Acute toxicity, Oral (Category 5)  
 Skin sensitization (Category 1)  
 Germ cell mutagenicity (Category 2)  
 Carcinogenicity (Category 2)  
 Acute aquatic toxicity (Category 1)  
 Chronic aquatic toxicity (Category 1)

##### GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)

H303 May be harmful if swallowed.  
 H317 May cause an allergic skin reaction.  
 H341 Suspected of causing genetic defects.  
 H351 Suspected of causing cancer.  
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P272 Contaminated work clothing should not be allowed out of the workplace.



P273 Avoid release to the environment.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P302 + P352 IF ON SKIN: Wash with plenty of water.  
 P312 Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P391 Collect spillage.  
 P405 Store locked up.  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**HMIS Classification**

Health hazard: 2  
 Chronic Health Hazard: \*  
 Flammability: 0  
 Physical hazards: 0

**Potential Health Effects**

Inhalation Toxic if inhaled. Causes respiratory tract irritation.  
 Skin Causes skin irritation.  
 Eyes Causes eye irritation.  
 Ingestion Toxic if swallowed.

<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
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CAS-No	EC-No	Index-No	Concentration
<b>Inert Carrier</b>			
No data available	-	-	<=96.67%
<b>o-Phenylenediamine dihydrochloride</b>			
615-28-1	210-418-7	612-146-00-8	<=3.33%

<b>FIRST AID MEASURES</b>
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**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

<b>FIRE FIGHTING MEASURES</b>
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**Conditions of flammability**

Not flammable or combustible.

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

**Explosion data - sensitivity to mechanical impact**

No data available

**Explosion data - sensitivity to static discharge.**

No data available

## ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 2 - 8 °C

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges 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.

#### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

#### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### 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

Complete suit protecting against chemicals, 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.

**Specific engineering controls**

Use mechanical exhaust or laboratory fume hood to avoid exposure.

**PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form tablet

Colour No data available

**Safety data:**

pH: No data available

Melting point/freezing point Melting point/range: 258 °C (496 °F) - dec.

Boiling point: No data available

Flash point: No data available

Ignition temperature: No data available

Auto-ignition temperature: No data available

Lower explosion limit: No data available

Upper explosion limit: No data available

Vapour pressure: No data available

Density: No data available

Water solubility: No data available

Partition coefficient no-octanol/water: No data available

Relative vapour density: No data available

Odour: No data available

Odour Threshold: No data available

Evaporation rate: No data available

**STABILITY AND REACTIVITY****Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Materials to avoid**

No data available

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

Other decomposition products - No data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Hydrogen

<b>TOXICOLOGICAL INFORMATION</b>
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**Acute toxicity**

Oral LD50: No data available  
 Inhalation LC50: No data available  
 Dermal LD50: No data available  
 Other information on acute toxicity: No data available  
 Skin corrosion/irritation: No data available  
 Serious eye damage/eye irritation Eyes: No data available  
 Respiratory or skin sensitization: No data available  
 Germ cell mutagenicity: No data available

**Carcinogenicity**

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

Reproductive toxicity: No data available  
 Teratogenicity: No data available  
 Specific target organ toxicity - single exposure (Globally Harmonized System): No data available  
 Specific target organ toxicity - repeated exposure (Globally Harmonized System): No data available  
 Aspiration hazard: No data available

**Potential health effects**

Inhalation Toxic if inhaled. Causes respiratory tract irritation.  
 Ingestion Toxic if swallowed  
 Skin Causes skin irritation  
 Eyes Causes eye irritation

**Synergistic effects** No data available

**Additional Information: RTECS: Not available**

<b>ECOLOGICAL INFORMATION</b>
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**Toxicity** No data available  
**Persistence and degradability** No data available  
**Bio accumulative potential** No data available  
**Mobility in soil** No data available  
**PBT and vPvB assessment** No data available  
**Other adverse effects**  
 An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
 Very toxic to aquatic life with long lasting effect

<b>DISPOSAL CONSIDERATIONS</b>
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**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. 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.

**Contaminated packaging**

Dispose of as unused product.

**TRANSPORT INFORMATION**

**DOT (US)** Not dangerous goods

**IMDG** UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (o-Phenylenediamine dihydrochloride)  
Marine pollutant: Marine pollutant

**IATA** UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (o-Phenylenediamine dihydrochloride)

**Further information EHS**-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

**REGULATORY INFORMATION****WHMIS Classification**

D1B Toxic Material Causing Immediate and Serious Toxic Effects      Toxic by ingestion

D2A Very Toxic Material Causing Other Toxic Effects Toxic by inhalation.

D2B Toxic Material Causing Other Toxic Effects Carcinogen

    Moderate eye irritant

    Skin sensitizer

    Mutagen

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations

**OTHER INFORMATION**

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