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Revision: 03/23/2015 Supersedes Revision: 02/03/2011

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

**1.1 Product Code:** 600361

Product Name: Cell-Based Assay Monochlorobimane

1.2 Relevant identified uses of the substance or mixture and uses advised against:

**Relevant identified uses:** For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company

1180 E. Ellsworth Rd.

Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

CHEMTREC Outside USA and Canada: +1 (703)527-3887

#### Section 2. Hazards Identification

#### 2.1 Classification of the Substance or Mixture:

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Flammable Liquids, Category 4

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2

#### 2.2 Label Elements:

#### 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:



GHS Signal Word: Warning

#### **GHS Hazard Phrases:**

H227: Combustible liquid.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

#### **GHS Precaution Phrases:**

P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

#### **GHS Response Phrases:**

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P332+313: If skin irritation occurs, get medical advice/attention.

P337+313: If eye irritation persists, get medical advice/attention.

P362+364: Take off contaminated clothing and wash it before reuse.

#### **GHS Storage and Disposal Phrases:**

Please refer to Section 7 for Storage and Section 13 for Disposal information.



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#### SAFETY DATA SHEET Cell-Based Assay Monochlorobimane

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2.3 Adverse Human Health Causes skin and serious eye irritation.

**Effects and Symptoms:** DMSO has the potential to carry toxic materials or materials of unknown toxicity into the body.

DMSO is readily absorbed through skin.

Material may be irritating to the mucous membranes and upper respiratory tract.

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

May cause respiratory system irritation.

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

#### Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
76421-73-3 NA	Monochlorobimane	0.0 -5.0 %	NA NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335 H336
67-68-5 PV6210000	Dimethyl sulfoxide, anhydrous	95.0 -100.0 %	200-664-3 NA	Flam. Liq. 4: H227 Eye Damage 2A: H319 Skin Corr. 2: H315

#### Section 4. First Aid Measures

4.1 Description of First Aid No data available.

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated

clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined

and tested by medical personnel.

**In Case of Ingestion:** Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

4.2 Important Symptoms and Exposure may cause: hematuria or shortness of breath (dyspnea).

Effects, Both Acute and Exposure may cause: gastrointestinal irritation with nausea, vomiting, diarrhea, headache,

**Delayed:** dizziness, and drowsiness.

Eye contact may cause blurry vision, burning sensation, redness, tearing, and vasodilation.

## Section 5. Fire Fighting Measures

**5.1 Suitable Extinguishing** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

**Media:** Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing A solid water stream may be inefficient.

Media:

5.2 Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flashpoint.

**Hazards:** Container explosion may occur under fire conditions.

Emits toxic fumes under fire conditions.

Sensitive to static discharge.

Flash Pt: 89.00 C Method Used: Closed Cup

Explosive Limits: LEL: 3.5% at 25.0 C UEL: 42% at 25.0 C

Autoignition Pt: 215.00 C

**5.3 Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or



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equivalent), and full protective gear to prevent contact with skin and eyes.

Note: Combustible as diluted in dimethyl sulfoxide

#### Section 6. Accidental Release Measures

**6.1 Protective Precautions,** Avoid breathing vapors and provide adequate ventilation.

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

**Emergency Procedures:** and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

**6.2 Environmental** Take steps to avoid release into the environment, if safe to do so.

Precautions:

**6.3 Methods and Material For** Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:

#### Section 7. Handling and Storage

**7.1 Precautions To Be Taken** Avoid breathing dust/fume/gas/mist/vapours/spray.

**in Handling:** Avoid prolonged or repeated exposure.

Keep away from sources of ignition.

Take precautionary measures against static discharge.

**7.2** Precautions To Be Taken Keep away from heat, sparks and flame.

in Storing: Keep container tightly closed.

Store in accordance with information listed on the product insert.

Other Precautions: Hygroscopic.

Light sensitive.

#### Section 8. Exposure Controls/Personal Protection

#### 8.1 Exposure Parameters:

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
76421-73-3	Monochlorobimane	No data.	No data.	No data.
67-68-5	Dimethyl sulfoxide, anhydrous	No data.	No data.	No data.
CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
76421-73-3	Monochlorobimane	No data.	No data.	No data.
67-68-5	Dimethyl sulfoxide, anhydrous	No data.	No data.	No data.

#### 8.2 Exposure Controls:

**8.2.1 Engineering Controls** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

(Ventilation etc.): levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

**Respiratory Equipment** NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Maintenan Do not take internally.

ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

shower.

Wash thoroughly after handling.

No data available.

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## Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [ X ] Liquid [ ] Solid

Appearance and Odor: A solution in DMSO

Melting Point:No data.Boiling Point:No data.

Flash Pt: 89.00 C Method Used: Closed Cup

**Evaporation Rate:** No data.

Explosive Limits: LEL: 3.5% at 25.0 C UEL: 42% at 25.0 C

Vapor Pressure (vs. Air or mm 0.37 MM\_HG at 20.0 C

Hg):

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Autoignition Pt: 215.00 C

9.2 Other Information

Percent Volatile: No data.

#### Section 10. Stability and Reactivity

**10.1 Reactivity:** No data available.

**10.2 Stability:** Unstable [ ] Stable [ X ]

**10.3 Stability Note(s):** No data available.

**Polymerization:** Will occur [ ] Will not occur [ X ]

**10.4 Conditions To Avoid:** heat, flames and sparks

10.5 Incompatibility - Materials acid chlorides

To Avoid: phosphorus halides

strong acids alkali metals

strong oxidizing agents strong reducing agents

**10.6 Hazardous** carbon monoxide

Decomposition Or carbon dioxide

Byproducts: sulfur oxides



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Section 11. Toxicological Information

**11.1** Information on The toxicological effects of this product have not been thoroughly studied.

**Toxicological Effects:** DMSO - Toxicity Data: Oral LD50 (rat): 14,500 mg/kg; Inhalation LC50 (rat): 40,250 ppm (4h);

Dermal LD50 (rabbit): > 5,000 mg/kg; Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit):

500 mg (24h) mild;

**Chronic Toxicological** Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

**Effects:** See actual entry in RTECS for complete information.

DMSO RTECS Number: PV6210000

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
76421-73-3	Monochlorobimane	n.a.	n.a.	n.a.	n.a.
67-68-5	Dimethyl sulfoxide, anhydrous	n.a.	n.a.	n.a.	n.a.

#### Section 12. Ecological Information

**12.1 Toxicity:** Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

**12.2** Persistence and No data available.

Degradability:

**12.3** Bioaccumulative No data available.

Potential:

**12.4 Mobility in Soil:** No data available.

**12.5** Results of PBT and vPvB No data available.

assessment:

**12.6** Other adverse effects: No data available.

## Section 13. Disposal Considerations

**13.1 Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.

## Section 14. Transport Information

#### 14.1 LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not dangerous goods.

DOT Hazard Class: UN/NA Number:

#### 14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number: Hazard Class:

#### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Transport in accordance with local, state, and federal regulations.

Information:





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Section 15. Regulatory Information

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
76421-73-3	Monochlorobimane	No	No	No
67-68-5	Dimethyl sulfoxide, anhydrous	No	No	No

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
76421-73-3	Monochlorobimane	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
67-68-5	Dimethyl sulfoxide, anhydrous	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

#### Section 16. Other Information

**Revision Date:** 03/23/2015

Additional Information About

No data available.

This Product:

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information

currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for

their particular purposes.



# **SAFETY DATA SHEET**Cell-Based Assay Glutathione Standard

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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

**1.1 Product Code:** 600362

**Product Name:** Cell-Based Assay Glutathione Standard

1.2 Relevant identified uses of the substance or mixture and uses advised against:

**Relevant identified uses:** For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company

1180 E. Ellsworth Rd.

Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

CHEMTREC Outside USA and Canada: +1 (703)527-3887

#### Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:
- 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:
- 2.2 Label Elements:
- 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:

GHS Signal Word: None

**GHS Hazard Phrases:** 

Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.

**GHS Precaution Phrases:** 

No phrases apply.

**GHS** Response Phrases:

No phrases apply.

**GHS Storage and Disposal Phrases:** 

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.

**Effects and Symptoms:** May be harmful by inhalation, ingestion, or skin absorption.

May cause eye, skin, or respiratory system irritation.

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

## Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
70-18-8 MC0556000	Glutathione, reduced	100.0 %	200-725-4 NA	No data available.



**SAFETY DATA SHEET Cell-Based Assay Glutathione Standard** 

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#### Section 4. First Aid Measures

4.1 **Description of First Aid** 

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated

clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined

and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

#### Section 5. Fire Fighting Measures

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

Media: Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing A solid water stream may be inefficient.

Media:

5.2 Flammable Properties and No data available.

Hazards:

Flash Pt: No data.

LEL: No data. UEL: No data. **Explosive Limits:** 

**Autoignition Pt:** No data.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or 5.3

equivalent), and full protective gear to prevent contact with skin and eyes.

#### Section 6. Accidental Release Measures

6.1 **Protective Precautions,** Avoid raising and breathing dust, and provide adequate ventilation.

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). **Emergency Procedures:** 

6.2 Take steps to avoid release into the environment, if safe to do so. **Environmental** 

**Precautions:** 

6.3 Methods and Material For Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:

## Section 7. Handling and Storage

7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure. in Handling:

7.2 Precautions To Be Taken Keep container tightly closed.

> in Storing: Store in accordance with information listed on the product insert.

#### Section 8. Exposure Controls/Personal Protection

#### 8.1 **Exposure Parameters:**

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
70-18-8	Glutathione, reduced	No data.	No data.	No data.

Multi-region format



## SAFETY DATA SHEET

**Cell-Based Assay Glutathione Standard** 

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CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
70-18-8	Glutathione, reduced	No data.	No data.	No data.

8.2 **Exposure Controls:** 

8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits. (Ventilation etc.):

8.2.2 Personal protection equipment:

**Eye Protection:** Safety glasses

**Protective Gloves:** Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

NIOSH approved respirator, as conditions warrant. **Respiratory Equipment** 

(Specify Type):

Work/Hygienic/Maintenan Do not take internally.

ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

shower.

Wash thoroughly after handling.

No data available.

#### Section 9. Physical and Chemical Properties

3 1	Information on Basic Physical a	and Chamical Proportice
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[ ] Gas [ ] Liquid [X] Solid **Physical States:** 

A lyophilized powder Appearance and Odor:

No data. **Melting Point: Boiling Point:** No data. No data. Flash Pt: No data. **Evaporation Rate:** 

No data available. Flammability (solid, gas):

UEL: No data. LEL: No data. **Explosive Limits:** 

Vapor Pressure (vs. Air or mm No data.

Hg):

Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): No data. No data. Solubility in Water: **Autoignition Pt:** No data.

9.2 Other Information

> No data. **Percent Volatile:**

#### Section 10. Stability and Reactivity

10.1 No data available. Reactivity:

10.2 Unstable [ ] Stable [X] Stability:

10.3 Stable if stored in accordance with information listed on the product insert. Stability Note(s):

Polymerization: Will occur [ ] Will not occur [X]

10.4 No data available. **Conditions To Avoid:** 10.5 Incompatibility - Materials strong oxidizing agents

To Avoid:

10.6 Hazardous carbon dioxide

> carbon monoxide **Decomposition or** nitrogen oxides **Byproducts:**





## SAFETY DATA SHEET Call-Recad Assey Clutethione Standard

Cell-Based Assay Glutathione Standard

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sulfur oxides

#### Section 11. Toxicological Information

**11.1** Information on The toxicological effects of this compound have not been thoroughly studied.

**Toxicological Effects:** Glutathione - Toxicity Data: Oral LD50 (mouse): 5 g/kg;

**Chronic Toxicological** Glutathione - Investigated as a mutagen and reproductive effector.

Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

Glutathione RTECS Number: MC0556000

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
70-18-8	Glutathione, reduced	n.a.	n.a.	n.a.	n.a.

## Section 12. Ecological Information

**12.1 Toxicity:** Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

**12.2** Persistence and No data available.

Degradability:

**12.3** Bioaccumulative No data available.

Potential:

**12.4 Mobility in Soil:** No data available.

12.5 Results of PBT and vPvB No data available.

assessment:

**12.6** Other adverse effects: No data available.

#### Section 13. Disposal Considerations

**13.1** Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

## Section 14. Transport Information

#### 14.1 LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not dangerous goods.

DOT Hazard Class: UN/NA Number:

#### 14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number: Hazard Class:

#### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Transport in accordance with local, state, and federal regulations.

Information:



## **SAFETY DATA SHEET Cell-Based Assay Glutathione Standard**

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## Section 15. Regulatory Information

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
70-18-8	Glutathione, reduced	No	No	No
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists		
	Glutathione, reduced	CAA HAP ODC:	No: CWA NPDES	No; TSCA: Yes -
70-18-8	Glatatrione, reduced	0,0,1,000.	,	,

**Regulatory Information** This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

No.1272/2008. Statement:

Section 16. Other Information

Revision Date: 05/02/2015

Additional Information About

No data available.

This Product:

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information

> currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for

their particular purposes.



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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 10009322

**Product Name:** Cell-Based Assay Buffer Tablet

1.2 Relevant identified uses of the substance or mixture and uses advised against:

**Relevant identified uses:** For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company

1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

CHEMTREC Outside USA and Canada: +1 (703)527-3887

#### Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Acute Toxicity: Oral, Category 5
Acute Toxicity: Skin, Category 5

Serious Eye Damage/Eye Irritation, Category 2A

2.2 Label Elements:

2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:



GHS Signal Word: Warning

**GHS Hazard Phrases:** 

H303: May be harmful if swallowed.

H313: May be harmful in contact with skin.

H319: Causes serious eye irritation.

**GHS Precaution Phrases:** 

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

**GHS Response Phrases:** 

P312: Call a {POISON CENTER/doctor/...} if you feel unwell.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P337+313: If eye irritation persists, get medical advice/attention.

**GHS Storage and Disposal Phrases:** 

Please refer to Section 7 for Storage and Section 13 for Disposal information.



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2.3 Adverse Human Health Causes serious eye irritation

Effects and Symptoms: Material may be irritating to the mucous membranes and upper respiratory tract.

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

May cause skin or respiratory system irritation.

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

## Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
7558-79-4 WC4500000	Sodium phosphate, Dibasic	> 1.0 %	231-448-7 NA	Eye Damage 2: H319
7647-14-5 VZ4725000	Sodium chloride	> 1.0 %	231-598-3 NA	No data available.
7778-77-0 TC6615500	Potassium phosphate, Monobasic	> 1.0 %	231-913-4 NA	No data available.
7447-40-7 TS8050000	Potassium chloride	> 1.0 %	231-211-8 NA	Acute Tox.(O) 5: H303 Aquatic (A) 3: H402

#### Section 4. First Aid Measures

4.1 Description of First Aid No data available.

Measures:

**In Case of Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated

clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined

and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

4.2 Important Symptoms and Exposure may cause: Hyperkalaemia, nausea, vomiting, abdominal pain, diarrhea or constipation,

Effects, Both Acute and

paraesthesia, thirst, dizziness, skin rash, pruritus, weakness, muscle cramps, and minor psychiatric

**Delayed:** or visual changes.

## Section 5. Fire Fighting Measures

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

**Media:** Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing A solid water stream may be inefficient.

Media:

**5.2** Flammable Properties and No data available.

Hazards:

Flash Pt: No data.

**Explosive Limits:** LEL: No data. UEL: No data.

Autoignition Pt: No data.

**5.3 Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.



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#### Section 6. Accidental Release Measures

**6.1 Protective Precautions,** Avoid raising and breathing dust, and provide adequate ventilation.

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

**Emergency Procedures:** and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

**6.2 Environmental** Take steps to avoid release into the environment, if safe to do so.

Precautions:

**6.3 Methods and Material For** Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:

## Section 7. Handling and Storage

**7.1 Precautions To Be Taken** Avoid breathing dust/fume/gas/mist/vapours/spray.

in Handling: Avoid prolonged or repeated exposure.

**7.2** Precautions To Be Taken Keep container tightly closed.

in Storing: Store in accordance with information listed on the product insert.

Other Precautions: Hygroscopic.

#### Section 8. Exposure Controls/Personal Protection

#### 8.1 Exposure Parameters:

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
7558-79-4	Sodium phosphate, Dibasic	No data.	No data.	No data.
7647-14-5	Sodium chloride	No data.	No data.	No data.
7778-77-0	Potassium phosphate, Monobasic	No data.	No data.	No data.
7447-40-7	Potassium chloride	No data.	No data.	No data.
CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7558-79-4	Sodium phosphate, Dibasic	No data.	No data.	No data.
7647-14-5	Sodium chloride	No data.	No data.	No data.
7778-77-0	Potassium phosphate, Monobasic	No data.	No data.	No data.
7447-40-7	Potassium chloride	No data.	No data.	No data.

8.2 Exposure Controls:

8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

(Ventilation etc.): levels below recommended exposure limits.

8.2.2 Personal protection equipment:

**Eye Protection:** Safety glasses

**Protective Gloves:** Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

**Respiratory Equipment** NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Maintenan Do not take internally.

ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

shower.

Wash thoroughly after handling.

No data available.



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## Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [ ] Liquid [ X ] Solid

Appearance and Odor: tablet(s)

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.

Evaporation Rate: No data.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm No data.

Hg):

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Autoignition Pt: No data.

9.2 Other Information

**Byproducts:** 

10.6

Percent Volatile: No data.

#### Section 10. Stability and Reactivity

**10.1 Reactivity:** No data available.

**10.2 Stability:** Unstable [ ] Stable [ X ]

**10.3 Stability Note(s):** Stable if stored in accordance with information listed on the product insert.

**Polymerization:** Will occur [ ] Will not occur [ X ]

**10.4 Conditions To Avoid:** No data available.

**10.5** Incompatibility - Materials strong acids

To Avoid: strong oxidizing agents
Hazardous hydrogen chloride gas
Decomposition Or phosphorus oxides

potassium oxides sodium oxides

## Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

**Toxicological Effects:** Potassium chloride - Toxicity Data: Oral LD50 (rat): 2,600 mg/kg;

Potassium chloride - Irritation Data: Eyes (rabbit): 500 mg (24h) mild;

Potassium phosphate, Monobasic - Toxicity Data: Skin LD50 (rabbit): >4,640 mg/kg;

Sodium chloride - Toxicity Data: Oral LD50 (rat): 3,000 mg/kg; Oral LD50 (mouse): 4,000 mg/kg; Sodium chloride - Irritation Data: Eyes (rabbit): 100 mg (24h) moderate; Skin (rabbit): 500 mg (24h)

mild;

Sodium phosphate, Dibasic - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 500 mg

(24h) mild;

**Chronic Toxicological** Potassium chloride - Investigated as a mutagen and tumorigen.

**Effects:** Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information. Potassium chloride RTECS Number: TS8050000

Potassium phosphate, Monobasic RTECS Number: TC6615500

Sodium chloride RTECS Number: VZ4725000

Sodium phosphate, Dibasic RTECS Number: WC4500000

Multi-region format



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CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7558-79-4	Sodium phosphate, Dibasic	n.a.	n.a.	n.a.	n.a.
7647-14-5	Sodium chloride	n.a.	n.a.	n.a.	n.a.
7778-77-0	Potassium phosphate, Monobasic	n.a.	n.a.	n.a.	n.a.
7447-40-7	Potassium chloride	n.a.	n.a.	n.a.	n.a.

#### Section 12. Ecological Information

**12.1 Toxicity:** Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

**12.2** Persistence and No data available.

Degradability:

**12.3 Bioaccumulative** No data available.

Potential:

**12.4 Mobility in Soil:** No data available.

12.5 Results of PBT and vPvB No data available.

assessment:

#### Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

#### Section 14. Transport Information

#### 14.1 LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not dangerous goods.

DOT Hazard Class: UN/NA Number:

#### 14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number: Hazard Class:

#### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

**Additional Transport** Transport in accordance with local, state, and federal regulations.

Information:

## Section 15. Regulatory Information

#### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7558-79-4	Sodium phosphate, Dibasic	No	Yes 5000 LB	No
7647-14-5	Sodium chloride	No	No	No
7778-77-0	Potassium phosphate, Monobasic	No	No	No
7447-40-7	Potassium chloride	No	No	No

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7558-79-4	Sodium phosphate, Dibasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
7647-14-5	Sodium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -

Multi-region format



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		Inventory; CA PROP.65: No
7778-77-0	Potassium phosphate, Monobasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
7447-40-7	Potassium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

**Statement:** No.1272/2008.

#### Section 16. Other Information

**Revision Date:** 01/22/2015

Additional Information About No

No data available.

This Product:

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information

currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for

their particular purposes.



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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 10010215

Product Name: Cell-Based Assay Lysis Buffer

1.2 Relevant identified uses of the substance or mixture and uses advised against:

**Relevant identified uses:** For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company

1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

CHEMTREC Outside USA and Canada: +1 (703)527-3887

#### Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Acute Toxicity: Oral, Category 4

Serious Eye Damage/Eye Irritation, Category 2

2.2 Label Elements:

2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:



GHS Signal Word: Warning

**GHS Hazard Phrases:** 

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

**GHS Precaution Phrases:** 

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

**GHS Response Phrases:** 

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P330: Rinse mouth.

P337+313: If eye irritation persists, get medical advice/attention.

**GHS Storage and Disposal Phrases:** 

Please refer to Section 7 for Storage and Section 13 for Disposal information.





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2.3 Adverse Human Health Causes serious eye irritation.

Effects and Symptoms: Harmful if swallowed.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation or skin absorption. May cause skin or respiratory system irritation.

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

#### Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
7647-14-5 VZ4725000	Sodium chloride	0.0 -5.0 %	231-598-3 NA	No data available.
7447-40-7 TS8050000	Potassium chloride	0.0 -1.0 %	231-211-8 NA	Acute Tox.(O) 5: H303 Aquatic (A) 3: H402
7558-79-4 WC4500000	Sodium phosphate, Dibasic	0.0 -5.0 %	231-448-7 NA	Eye Damage 2: H319
7778-77-0 TC6615500	Potassium phosphate, Monobasic	0.0 -1.0 %	231-913-4 NA	No data available.
9002-93-1 YM0616666	Triton X-100	0.0 -1.0 %	NA NA	Acute Tox.(O) 4: H302 Eye Damage 1: H318 Skin Corr. 3: H316 Aquatic (C) 2: H411 Aquatic (A) 2: H401
7732-18-5 ZC0110000	Water	87.0 -100.0 %	231-791-2 NA	No data available.

#### Section 4. First Aid Measures

#### 4.1 Description of First Aid

Measures:

**In Case of Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated

clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined

and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.



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### Section 5. Fire Fighting Measures

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

Media: Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing A solid water stream may be inefficient.

Media:

5.2 Flammable Properties and No data available.

Hazards:

Flash Pt: No data.

**Explosive Limits:** LEL: No data. UEL: No data.

**Autoignition Pt:** No data.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

#### Section 6. Accidental Release Measures

Avoid raising and breathing dust, and provide adequate ventilation. 6.1 **Protective Precautions,** 

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). **Emergency Procedures:** 

6.2 Take steps to avoid release into the environment, if safe to do so. **Environmental** 

Precautions:

6.3 Methods and Material For Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:

## Section 7. Handling and Storage

7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure. in Handling:

7.2 Precautions To Be Taken Keep container tightly closed.

> in Storing: Store in accordance with information listed on the product insert.

## Section 8. Exposure Controls/Personal Protection

#### 8.1 **Exposure Parameters:**

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
7647-14-5	Sodium chloride	No data.	No data.	No data.
7447-40-7	Potassium chloride	No data.	No data.	No data.
7558-79-4	Sodium phosphate, Dibasic	No data.	No data.	No data.
7778-77-0	Potassium phosphate, Monobasic	No data.	No data.	No data.
9002-93-1	Triton X-100	No data.	No data.	No data.
7732-18-5	Water	No data.	No data.	No data.
CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
	i artial Offernical Name	OOHA IWA	AGGIITTITA	Other Linits
7647-14-5	Sodium chloride	No data.	No data.	No data.
7647-14-5	Sodium chloride	No data.	No data.	No data.
7647-14-5 7447-40-7	Sodium chloride Potassium chloride	No data.	No data.	No data.
7647-14-5 7447-40-7 7558-79-4	Sodium chloride Potassium chloride Sodium phosphate, Dibasic	No data.  No data.  No data.	No data.  No data.  No data.	No data.  No data.  No data.



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3.2 Exposure Controls:

**8.2.1 Engineering Controls** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

(Ventilation etc.): levels below recommended exposure limits.

8.2.2 Personal protection equipment:

**Eye Protection:** Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

**Respiratory Equipment** NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Maintenan Do not take internally.

ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

shower.

Wash thoroughly after handling.

No data available.

## Section 9. Physical and Chemical Properties

i		
9.1	Information on Basic Physical and Chemical Properties	

Physical States: [ ] Gas [ X ] Liquid [ ] Solid

Appearance and Odor:

pH:

7.4

Melting Point:

No data.

Boiling Point:

No data.

Flash Pt:

No data.

Evaporation Rate:

No data.

Flammability (solid, gas): No data available.

**Explosive Limits:** LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm No data.

Hq):

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Autoignition Pt: No data.

9.2 Other Information

Percent Volatile: No data.

## Section 10. Stability and Reactivity

**10.1 Reactivity:** No data available.

**10.2 Stability:** Unstable [ ] Stable [ X ]

10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.

**Polymerization:** Will occur [ ] Will not occur [ X ]

10.4 Conditions To Avoid: No data available.10.5 Incompatibility - Materials No data available.

To Avoid:

**10.6 Hazardous** No data available.

Decomposition or Byproducts:



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## Section 11. Toxicological Information

**11.1 Information on** The toxicological effects of this compound have not been thoroughly studied.

**Toxicological Effects:** Triton X-100 - Toxicity Data: Oral LD50 (rat): 1800 mg/kg;

**Chronic Toxicological** Triton X-100 - Investigated as a mutagen and reproductive effector.

Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

Triton X-100 RTECS Number: MD0907700

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7647-14-5	Sodium chloride	n.a.	n.a.	n.a.	n.a.
7447-40-7	Potassium chloride	n.a.	n.a.	n.a.	n.a.
7558-79-4	Sodium phosphate, Dibasic	n.a.	n.a.	n.a.	n.a.
7778-77-0	Potassium phosphate, Monobasic	n.a.	n.a.	n.a.	n.a.
9002-93-1	Triton X-100	n.a.	n.a.	n.a.	n.a.
7732-18-5	Water	n.a.	n.a.	n.a.	n.a.

#### Section 12. Ecological Information

**12.1 Toxicity:** Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

**12.2** Persistence and No data available.

Degradability:

**12.3** Bioaccumulative No data available.

Potential:

**12.4 Mobility in Soil:** No data available.

12.5 Results of PBT and vPvB No data available.

assessment:

**12.6** Other adverse effects: No data available.

## Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

## Section 14. Transport Information

#### 14.1 LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not dangerous goods.

DOT Hazard Class: UN/NA Number:

#### 14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number: Hazard Class:

#### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Transport in accordance with local, state, and federal regulations.

Information:



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Section 15. Regulatory Information

<b>EPA SARA</b>	(Superfund	Amendments and	Reauthorization	Act of 1986) Lists
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CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7647-14-5	Sodium chloride	No	No	No
7447-40-7	Potassium chloride	No	No	No
7558-79-4	Sodium phosphate, Dibasic	No	Yes 5000 LB	No
7778-77-0	Potassium phosphate, Monobasic	No	No	No
9002-93-1	Triton X-100	No	No	No
7732-18-5	Water	No	No	No

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7647-14-5	Sodium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
7447-40-7	Potassium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
7558-79-4	Sodium phosphate, Dibasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
7778-77-0	Potassium phosphate, Monobasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
9002-93-1	Triton X-100	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A PAIR; CA PROP.65: No
7732-18-5	Water	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

**Regulatory Information** This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

**Statement:** No.1272/2008.

#### Section 16. Other Information

**Revision Date:** 05/02/2015

Additional Information About No data available.

This Product:

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currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for

their particular purposes.