

### Kit Summary

**Product Code(s)** AB39401  
**Product name** Caspase 3 Assay Kit (Colorimetric)

#### DTT

| Chemical Name | EC-No     | CAS-No    | Weight % | Classification (67/548)  | Classification (Reg. 1272/2008)  | REACH Registration Number |
|---------------|-----------|-----------|----------|--------------------------|--|---------------------------|
| DTT           | 222-468-7 | 3483-12-3 | 15.43    | Xn; R22<br>Xi; R36/37/38 | STOT SE 3 (H335)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Acute Tox. 4 (H302) |                           |

#### Dilution Buffer

| Chemical Name | EC-No | CAS-No    | Weight % | Classification (67/548)    | Classification (Reg. 1272/2008)                                      | REACH Registration Number |
|---------------|-------|-----------|----------|----------------------------|--|---------------------------|
| Triton-X-100  | -     | 9002-93-1 | 1        | Xn;R22<br>R41<br>N; R51/53 | Eye Dam. 1 (H318)<br>Acute Tox. 4 (H302)<br>Aquatic Chronic 2 (H411) | no data available         |

#### Cell Lysis Buffer

| Chemical Name | EC-No     | CAS-No    | Weight % | Classification (67/548)    | Classification (Reg. 1272/2008)  | REACH Registration Number |
|---------------|-----------|-----------|----------|----------------------------|--|---------------------------|
| Triton-X-100  | -         | 9002-93-1 | 1        | Xn;R22<br>R41<br>N; R51/53 | Eye Dam. 1 (H318)<br>Acute Tox. 4 (H302)<br>Aquatic Chronic 2 (H411)                   |                           |
| DTT           | 222-468-7 | 3483-12-3 | 0.015    | Xn; R22<br>Xi; R36/37/38   | STOT SE 3 (H335)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Acute Tox. 4 (H302) |                           |

#### GHS / CLP - GHS - Classification



**Signal Word**  
Warning

### **Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

### **Precautionary Statements - EU (§28, 1272/2008)**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P332 + P313 - If skin irritation occurs: Get medical advice/ attention

P337 + P313 - If eye irritation persists: Get medical advice/ attention

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/ eye protection/ face protection

P362 - Take off contaminated clothing and wash before reuse

### **2.3 Other information**

A safety datasheet follows for all potentially hazardous components – all other components are non-hazardous.

### **TRANSPORT INFORMATION**

**DOT** Not dangerous goods

**IATA** Not dangerous goods

**ADR** Not dangerous goods

# Safety Data Sheet

Issuing date no data available

Revision Date 13-Jul-2015

Version 5

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** Cell Lysis Buffer

**Recommended use** For research use only

**Supplier Address** Abcam Inc  
1 Kendall Square, Ste 341  
Cambridge, MA 02139-1517  
USA  
Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free)  
Fax: (866) 739-9884 or (866) 457-9616 (both US toll free)

**E-mail address** technical@abcam.com

**Emergency telephone** Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free) - Monday-Friday 8am-9pm EST

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

|                                   |                |
|-----------------------------------|----------------|
| Serious eye damage/eye irritation | Category 2     |
| Ozone                             | Not applicable |

### GHS Label elements, including precautionary statements



### Signal Word

Warning

### Hazard statements

H319 - Causes serious eye irritation

### Precautionary Statements - EU (§28, 1272/2008)

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/ attention

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/ eye protection/ face protection

### Other information

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

| Chemical Name | CAS-No    | Weight % | Classification (Reg. 1272/2008)  |
|---------------|-----------|----------|--|
| Triton-X-100  | 9002-93-1 | 1-5      | Eye Dam. 1 (H318)<br>Acute Tox. 4 (H302)<br>Aquatic Chronic 2 (H411)                   |
| DTT           | 3483-12-3 | <0.1     | STOT SE 3 (H335)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Acute Tox. 4 (H302) |

For the full text of the H-Statements mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

|                           |   |
|---------------------------|---|
| <b>General advice</b>     | If symptoms persist, call a physician.  |
| <b>Eye contact</b>        | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician. |
| <b>Skin contact</b>       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.                                    |
| <b>Inhalation</b>         | Move to fresh air. If symptoms persist, call a physician.   |
| <b>Ingestion</b>          | Rinse mouth. If symptoms persist, call a physician.   |
| <b>Notes to physician</b> | Treat symptomatically.  |

### 5. FIRE-FIGHTING MEASURES

|  |  |
|--|--|
| <b>Flammable properties</b>                                  | Not flammable.   |
| <b>Flash point</b>   | not determined   |
| <b>Suitable extinguishing media</b>                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                |
| <b>Explosion Data</b>  |  |
| <b>Sensitivity to Mechanical Impact</b>                      | none.  |
| <b>Sensitivity to Static Discharge</b>                       | none.  |
| <b>Protective equipment and precautions for firefighters</b> | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |

**6. ACCIDENTAL RELEASE MEASURES**

|                                  |  |
|----------------------------------|--|
| <b>Personal precautions</b>      | Ensure adequate ventilation.                                       |
| <b>Environmental precautions</b> | Try to prevent the material from entering drains or water courses. |
| <b>Methods for containment</b>   | Prevent further leakage or spillage if safe to do so.              |
| <b>Methods for cleaning up</b>   | Pick up and transfer to properly labeled containers.               |

**7. HANDLING AND STORAGE**

|  |  |
|--|--|
| <b>Advice on safe handling</b>               | Handle in accordance with good industrial hygiene and safety practice.   |
| <b>Technical measures/Storage conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. |

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

|                                      |   |
|--------------------------------------|---|
| <b>Exposure Guidelines</b>           | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.   |
| <b>Engineering measures</b>          | Showers<br>Eyewash stations<br>Ventilation systems  |
| <b>Personal protective equipment</b> |   |
| <b>Eye/face protection</b>           | No special protective equipment required.   |
| <b>Skin and body protection</b>      | No special protective equipment required.   |
| <b>Respiratory protection</b>        | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| <b>Hygiene measures</b>              | Handle in accordance with good industrial hygiene and safety practice.  |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                  |                           |                                    |                           |
|----------------------------------|---------------------------|------------------------------------|---------------------------|
| <b>Appearance</b>                | No information available. | <b>Odor</b>                        | No information available. |
| <b>Odor Threshold</b>            | No information available  | <b>Physical State @20°C</b>        | No information available  |
| <b>pH</b>                        | No information available  | <b>Autoignition temperature</b>    | No information available  |
| <b>Flash point</b>               | No information available  | <b>Boiling point/boiling range</b> | No information available  |
| <b>Decomposition temperature</b> | No information available  | <b>Flammability Limits in Air</b>  | No information available  |
| <b>Melting point/range</b>       | No information available  | <b>solubility</b>                  | No information available. |
| <b>Explosion limits</b>          | No information available  | <b>Vapor density</b>               | no data available         |
| <b>Specific Gravity</b>          | no data available         |                                    |                           |
| <b>Evaporation rate</b>          | No information available  |                                    |                           |
| <b>VOC Content(%)</b>            | not applicable            |                                    |                           |

**10. STABILITY AND REACTIVITY**

**Stability** Stable under recommended storage conditions.

**Incompatible products** None known based on information supplied.

**Conditions to avoid** None known based on information supplied.

**Hazardous decomposition products** None known based on information supplied.

**Hazardous polymerization** Hazardous polymerization does not occur.

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity

**Product Information** Irritating to skin, eyes and / or respiratory tract.

**Inhalation** May cause irritation of respiratory tract

**Eye contact** May cause irritation

**Skin contact** May cause irritation

**Ingestion** Ingestion may cause irritation to mucous membranes

| Chemical Name | LD50 Oral          | LD50 Dermal | LC50 Inhalation |
|---------------|--------------------|-------------|-----------------|
| Triton-X-100  | 1800 mg/kg ( Rat ) |             |                 |

Chronic toxicity

**Target Organ Effects** None known.

**12. ECOLOGICAL INFORMATION**

Ecotoxicity

The environmental impact of this product has not been fully investigated.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging** Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

DOT Not dangerous goods

**IATA** Not dangerous goods

**ADR** Not dangerous goods

**15. REGULATORY INFORMATION**

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | yes |
| <b>Chronic Health Hazard</b>             | no  |
| <b>Fire Hazard</b>                       | no  |
| <b>Sudden Release of Pressure Hazard</b> | no  |
| <b>Reactive Hazard</b>                   | no  |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

**International Regulations**

**WHMIS Note:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**16. OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3**

H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation H411 - Toxic to aquatic life with long lasting effects

**Hazard statements**

H319 - Causes serious eye irritation

**Revision Date** 13-Jul-2015

**Revision Note** No information available.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of MSDS**

# Safety Data Sheet

**Issuing date** no data available

**Revision Date** 13-Jul-2015

**Version** 5

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** DTT

**Recommended use** For research use only

**Supplier Address** Abcam Inc  
1 Kendall Square, Ste 341  
Cambridge, MA 02139-1517  
USA  
Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free)  
Fax: (866) 739-9884 or (866) 457-9616 (both US toll free)

**E-mail address** technical@abcam.com

**Emergency telephone** Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free) - Monday-Friday 8am-9pm EST

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

|                                   |                |
|-----------------------------------|----------------|
| Skin corrosion/irritation         | Category 2     |
| Serious eye damage/eye irritation | Category 2     |
| Ozone                             | Not applicable |

### GHS Label elements, including precautionary statements



### Signal Word

Warning

### Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

### Precautionary Statements - EU (§28, 1272/2008)

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P332 + P313 - If skin irritation occurs: Get medical advice/ attention

P337 + P313 - If eye irritation persists: Get medical advice/ attention

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/ eye protection/ face protection

P362 - Take off contaminated clothing and wash before reuse

**Other information**

No information available

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

| Chemical Name | CAS-No    | Weight % | Classification (Reg. 1272/2008)  |
|---------------|-----------|----------|--|
| DTT           | 3483-12-3 | 10-30    | STOT SE 3 (H335)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Acute Tox. 4 (H302) |

For the full text of the H-Statements mentioned in this Section, see Section 16

**4. FIRST AID MEASURES**

|                           |   |
|---------------------------|---|
| <b>General advice</b>     | If symptoms persist, call a physician.  |
| <b>Eye contact</b>        | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician. |
| <b>Skin contact</b>       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.                                    |
| <b>Inhalation</b>         | Move to fresh air. If symptoms persist, call a physician.   |
| <b>Ingestion</b>          | Rinse mouth. If symptoms persist, call a physician.   |
| <b>Notes to physician</b> | Treat symptomatically.  |

**5. FIRE-FIGHTING MEASURES**

|  |  |
|--|--|
| <b>Flammable properties</b>                                  | Not flammable.   |
| <b>Flash point</b>   | not determined   |
| <b>Suitable extinguishing media</b>                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                |
| <b>Explosion Data</b>  |  |
| <b>Sensitivity to Mechanical Impact</b>                      | none.  |
| <b>Sensitivity to Static Discharge</b>                       | none.  |
| <b>Protective equipment and precautions for firefighters</b> | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |

**6. ACCIDENTAL RELEASE MEASURES**

|                                  |  |
|----------------------------------|--|
| <b>Personal precautions</b>      | Ensure adequate ventilation.                                       |
| <b>Environmental precautions</b> | Try to prevent the material from entering drains or water courses. |
| <b>Methods for containment</b>   | Prevent further leakage or spillage if safe to do so.              |
| <b>Methods for cleaning up</b>   | Pick up and transfer to properly labeled containers.               |

**7. HANDLING AND STORAGE**

|  |  |
|--|--|
| <b>Advice on safe handling</b>               | Handle in accordance with good industrial hygiene and safety practice.   |
| <b>Technical measures/Storage conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. |

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

|                                      |   |
|--------------------------------------|---|
| <b>Exposure Guidelines</b>           | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.   |
| <b>Engineering measures</b>          | Showers<br>Eyewash stations<br>Ventilation systems  |
| <b>Personal protective equipment</b> |   |
| <b>Eye/face protection</b>           | No special protective equipment required.   |
| <b>Skin and body protection</b>      | No special protective equipment required.   |
| <b>Respiratory protection</b>        | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| <b>Hygiene measures</b>              | Handle in accordance with good industrial hygiene and safety practice.  |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                  |                           |                                    |                           |
|----------------------------------|---------------------------|------------------------------------|---------------------------|
| <b>Appearance</b>                | No information available. | <b>Odor</b>                        | No information available. |
| <b>Odor Threshold</b>            | No information available  | <b>Physical State @20°C</b>        | No information available  |
| <b>pH</b>                        | No information available  | <b>Autoignition temperature</b>    | No information available  |
| <b>Flash point</b>               | No information available  | <b>Boiling point/boiling range</b> | No information available  |
| <b>Decomposition temperature</b> | No information available  | <b>Flammability Limits in Air</b>  | No information available  |
| <b>Melting point/range</b>       | No information available  | <b>solubility</b>                  | No information available. |
| <b>Explosion limits</b>          | No information available  | <b>Vapor density</b>               | no data available         |
| <b>Specific Gravity</b>          | no data available         |                                    |                           |
| <b>Evaporation rate</b>          | No information available  |                                    |                           |
| <b>VOC Content(%)</b>            | not applicable            |                                    |                           |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Stability</b>                        | Stable under recommended storage conditions. |
| <b>Incompatible products</b>            | None known based on information supplied.    |
| <b>Conditions to avoid</b>              | None known based on information supplied.    |
| <b>Hazardous decomposition products</b> | None known based on information supplied.    |
| <b>Hazardous polymerization</b>         | Hazardous polymerization does not occur.     |

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | Irritating to skin, eyes and / or respiratory tract. |
| <b>Inhalation</b>          | May cause irritation of respiratory tract            |
| <b>Eye contact</b>         | May cause irritation                                 |
| <b>Skin contact</b>        | May cause irritation                                 |
| <b>Ingestion</b>           | Ingestion may cause irritation to mucous membranes   |

### Chronic toxicity

|                             |             |
|-----------------------------|-------------|
| <b>Target Organ Effects</b> | None known. |
|-----------------------------|-------------|

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

## 13. DISPOSAL CONSIDERATIONS

|                               |   |
|-------------------------------|---|
| <b>Waste disposal methods</b> | This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements. |
| <b>Contaminated packaging</b> | Do not re-use empty containers.   |

## 14. TRANSPORT INFORMATION

|                    |                     |
|--------------------|---------------------|
| <b><u>DOT</u></b>  | Not dangerous goods |
| <b><u>IATA</u></b> | Not dangerous goods |

ADR

Not dangerous goods

**15. REGULATORY INFORMATION**

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | yes |
| <b>Chronic Health Hazard</b>             | no  |
| <b>Fire Hazard</b>                       | no  |
| <b>Sudden Release of Pressure Hazard</b> | no  |
| <b>Reactive Hazard</b>                   | no  |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

**International Regulations**

**WHMIS Note:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**16. OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3**

H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation

**Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

**Revision Date**

13-Jul-2015

**Revision Note**

No information available.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of MSDS**

# Safety Data Sheet

**Issuing date** no data available

**Revision Date** 13-Jul-2015

**Version** 4

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** Dilution Buffer

**Recommended use** For research use only

**Supplier Address** Abcam Inc  
1 Kendall Square, Ste 341  
Cambridge, MA 02139-1517  
USA  
Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free)  
Fax: (866) 739-9884 or (866) 457-9616 (both US toll free)

**E-mail address** technical@abcam.com

**Emergency telephone** Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free) - Monday-Friday 8am-9pm EST

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

|                                   |                |
|-----------------------------------|----------------|
| Serious eye damage/eye irritation | Category 2     |
| Ozone                             | Not applicable |

### GHS Label elements, including precautionary statements



### Signal Word

Warning

### Hazard statements

H319 - Causes serious eye irritation

### Precautionary Statements - EU (§28, 1272/2008)

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/ attention

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/ eye protection/ face protection

**Other information**

No information available

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

| Chemical Name | CAS-No    | Weight % | Classification (Reg. 1272/2008)                                      |
|---------------|-----------|----------|--|
| Triton-X-100  | 9002-93-1 | 1-5      | Eye Dam. 1 (H318)<br>Acute Tox. 4 (H302)<br>Aquatic Chronic 2 (H411) |

For the full text of the H-Statements mentioned in this Section, see Section 16

**4. FIRST AID MEASURES**

|                           |   |
|---------------------------|---|
| <b>General advice</b>     | If symptoms persist, call a physician.  |
| <b>Eye contact</b>        | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician. |
| <b>Skin contact</b>       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.                                    |
| <b>Inhalation</b>         | Move to fresh air. If symptoms persist, call a physician.   |
| <b>Ingestion</b>          | Rinse mouth. If symptoms persist, call a physician.   |
| <b>Notes to physician</b> | Treat symptomatically.  |

**5. FIRE-FIGHTING MEASURES**

|  |  |
|--|--|
| <b>Flammable properties</b>                                  | Not flammable.   |
| <b>Flash point</b>   | not determined   |
| <b>Suitable extinguishing media</b>                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                |
| <b>Explosion Data</b>  |  |
| <b>Sensitivity to Mechanical Impact</b>                      | none.  |
| <b>Sensitivity to Static Discharge</b>                       | none.  |
| <b>Protective equipment and precautions for firefighters</b> | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |

**6. ACCIDENTAL RELEASE MEASURES**

|                                  |  |
|----------------------------------|--|
| <b>Personal precautions</b>      | Ensure adequate ventilation.                                       |
| <b>Environmental precautions</b> | Try to prevent the material from entering drains or water courses. |
| <b>Methods for containment</b>   | Prevent further leakage or spillage if safe to do so.              |
| <b>Methods for cleaning up</b>   | Pick up and transfer to properly labeled containers.               |

**7. HANDLING AND STORAGE**

|  |  |
|--|--|
| <b>Advice on safe handling</b>               | Handle in accordance with good industrial hygiene and safety practice.   |
| <b>Technical measures/Storage conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. |

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

|                                      |   |
|--------------------------------------|---|
| <b>Exposure Guidelines</b>           | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.   |
| <b>Engineering measures</b>          | Showers<br>Eyewash stations<br>Ventilation systems  |
| <b>Personal protective equipment</b> |   |
| <b>Eye/face protection</b>           | No special protective equipment required.   |
| <b>Skin and body protection</b>      | No special protective equipment required.   |
| <b>Respiratory protection</b>        | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| <b>Hygiene measures</b>              | Handle in accordance with good industrial hygiene and safety practice.  |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                  |                           |                                    |                           |
|----------------------------------|---------------------------|------------------------------------|---------------------------|
| <b>Appearance</b>                | No information available. | <b>Odor</b>                        | No information available. |
| <b>Odor Threshold</b>            | No information available  | <b>Physical State @20°C</b>        | No information available  |
| <b>pH</b>                        | No information available  | <b>Autoignition temperature</b>    | No information available  |
| <b>Flash point</b>               | No information available  | <b>Boiling point/boiling range</b> | No information available  |
| <b>Decomposition temperature</b> | No information available  | <b>Flammability Limits in Air</b>  | No information available  |
| <b>Melting point/range</b>       | No information available  | <b>solubility</b>                  | No information available. |
| <b>Explosion limits</b>          | No information available  | <b>Vapor density</b>               | no data available         |
| <b>Specific Gravity</b>          | no data available         |                                    |                           |
| <b>Evaporation rate</b>          | No information available  |                                    |                           |
| <b>VOC Content(%)</b>            | not applicable            |                                    |                           |

**10. STABILITY AND REACTIVITY**

**Stability** Stable under recommended storage conditions.

**Incompatible products** None known based on information supplied.

**Conditions to avoid** None known based on information supplied.

**Hazardous decomposition products** None known based on information supplied.

**Hazardous polymerization** Hazardous polymerization does not occur.

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity

**Product Information** Irritating to skin, eyes and / or respiratory tract.

**Inhalation** May cause irritation of respiratory tract

**Eye contact** May cause irritation

**Skin contact** May cause irritation

**Ingestion** Ingestion may cause irritation to mucous membranes

| Chemical Name | LD50 Oral          | LD50 Dermal | LC50 Inhalation |
|---------------|--------------------|-------------|-----------------|
| Triton-X-100  | 1800 mg/kg ( Rat ) |             |                 |

Chronic toxicity

**Target Organ Effects** None known.

**12. ECOLOGICAL INFORMATION**

Ecotoxicity

The environmental impact of this product has not been fully investigated.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging** Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

DOT Not dangerous goods

IATA Not dangerous goods

ADR Not dangerous goods

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | yes |
| <b>Chronic Health Hazard</b>             | no  |
| <b>Fire Hazard</b>                       | no  |
| <b>Sudden Release of Pressure Hazard</b> | no  |
| <b>Reactive Hazard</b>                   | no  |

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **U.S. State Right-to-Know Regulations**

### **International Regulations**

#### **WHMIS Note:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**16. OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3**

H302 - Harmful if swallowed H318 - Causes serious eye damage H411 - Toxic to aquatic life with long lasting effects

**Hazard statements**

H319 - Causes serious eye irritation

**Revision Date** 13-Jul-2015

**Revision Note** No information available.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of MSDS**