Safety Data Sheet

Cat. # 786-515

Triton® X-114

Size: 500ml
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

1.1.1. Product form

Substance

1.1.2. Substance name

tertiary-octylphenoxypoly(ethoxyethanol)

Chemical name

Triton® X-114, Regular concentration

CAS-No.

9036-19-5

Product code

211T, 210T

Type of product

Polymer, Group

Formula

(C2H4O)n.C14H22O

Synonyms

2-methyl-2-propenoic acid, polymer with 2-propenoic acid and N-octy-2-propenamide / 2-methyl-2-propensyra, polymer med 2-propensyra och N-okty-2-propenamid kanasa / alpha,(1,3,3-tetramethylbutyl)phenyl,omega-hydroxy(poly(oxy-1,2-ethanediyl) / charger E / etere polietilenglicolmono((1,1,3,3-tetrametilbutil)fenilico) / ethoxylated octyphenol / ethyl CP / glycols, polyethylene, mono((1,1,3,3-tetramethylbutyl) phenyl)ether / igepal CA / igepal CA210 / igepal CA520 / neutronix 622 / neutronix 675 / nonidet P40 / nonion HS06 / nonion HS208 / NP-40 / octoxyol-9 / octyl phenol condensed with 20 moles ethylene oxide / octyl phenol condensed with 3 mol ethylene oxide / octyl phenol condensed with 16 mol ethylene oxide / octyl phenol EO (16) / octyl phenol EO (3) / octylphenol polyethoxylate / octlyphenoxypoly(ethoxyethanol) / octlyphenoxypoly(ethylenoxy)ethanol) / OP 1062 / OPE-3 / poly(ethylene oxide)octylphenol ether / poly(ethylene oxide)tertiary-octylphenol ether / poly(oxy-1,2-ethanediyl), alpha-((1,1,3,3-tetramethylbutyl)phenyl)-omega-hydroxy- / poly(oxyethylene)octylphenol ether / poly(oxyethylene)tertiary-octylphenol ether / poly(oxyethylene)tertiary-octylphenol ether / polyethyleenglycolmono((1,1,3,3-tetramethylbutyl)fenyl)ether / polyethyleneglycol octylphenol ether / polyethyleneglycol tertiary-octylphenol ether / polyethyleenglycolmono((1,1,3,3-tetramethylbutyl)phenyl)ether / polyethyleneglycolmono((1,1,3,3-tetramethylbutyl)phenyl)ether / polyethyleneglycolmono((1,1,3,3-tetramethylbutyl)phenyl)ether / polyethyleneglycolmono((1,1,3,3-tetramethylbutyl)phenyl)ether / polyethyleneglycolmono((1,1,3,3-tetramethylbutyl)phenyl)ether / polyethyleneglycolmono((1,1,3,3-tetramethylbutyl)phenyl)ether / polyethyleneglycolmono((1,1,3,3-tetramethylbutyl)phenyl)ether / polyethyleneglycolmono((1,1,3,3-tetramethylbutyl)phenyl)ether / secopal OP 20 / synperonic OP / synperonic OP 10 / T 45 / T 45, polyglycol / tere-octifienoxipoly(etoxietanol) / tertiary-octylphenoxypoly(ethylenoxy)ethanol / tertiary-octylphenoxypoly(oxyethylene)ethanol / tertiary-octylphenoxypoly(oxyethylene)ethanol / tertiary-octylphenoxypoly(ethoxyethanol) / tertiary-octylphenoxypoly(ethoxyethanol) / tertiary-octylphenoxypoly(ethoxyethanol) / tertiary-octylphenoxypoly(ethoxyethanol) / tertiary-octylphenoxypoly(ethoxyethanol) / tertiary-octylphenoxypoly(ethoxyethanol) / tertiary-octylphenoxypoly(ethoxyethanol) / tertiary-octylphenoxypoly(ethoxyethanol) / tertiary-octylphenoxypoly(ethoxyethanol) / tertiary-octylphenoxypoly(ethoxyethanol) / tertiary-octylphenoxypoly(ethoxyethanol) / tert-octylbenzenosipoly(etoxietanol) / triton X 114 / triton X 15 / triton X 207

Product group

Raw material

BIG no

13845

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

1.2.1. Relevant identified uses

Main use category

Research purposes

Use of the substance/mixture

Emulsifier

Detergent according to Regulation (EC) No 648/2004

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Geno Technology, Inc./ G-Biosciences

9800 Page Avenue

63132-1429 Saint Louis - United States

T 800-628-7730 - F 314-991-1504

technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number

Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Int'l)

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Belfast Centre)</td>
<td>Grosvenor Road BT12 6BA Belfast</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Birmingham Centre)</td>
<td>Dudley Road B18 7QH Birmingham</td>
<td>0344 892 0111</td>
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<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Cardiff Centre)</td>
<td>Penarth CF64 2XX Cardiff</td>
<td>0344 892 0111</td>
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</tr>
</tbody>
</table>

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tertiary-octylphenoxypoly(ethoxyethanol)
Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2  
H315

Serious eye damage/eye irritation, Category 2  
H319

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP):

CLP Signal word: Warning

Hazard statements (CLP): H315 - Causes skin irritation. H319 - Causes serious eye irritation.

Precautionary statements (CLP):

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

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

P321 - Specific treatment (see supplemental first aid instruction on this label).

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

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

P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>tertiary-octylphenoxypoly(ethoxyethanol)</td>
<td>(CAS-No.) 9036-19-5</td>
<td>&gt; 99</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2, H319</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16
SECTION 4: First aid measures

4.1. Description of first aid measures


First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact: Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Give activated charcoal. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation: ON CONTINUOUS EXPOSURE/CONTACT: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.

Symptoms/effects after skin contact: Tingling/irritation of the skin. Irritation.

Symptoms/effects after eye contact: Irritation of the eye tissue. ON CONTINUOUS EXPOSURE/CONTACT: Inflammation/damage of the eye tissue.

Symptoms/effects after ingestion: Gastrointestinal complaints.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Fire hazard: DIRECT FIRE HAZARD: Non-flammable. INDIRECT FIRE HAZARD: Heating increases the fire hazard.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire: Exposure to fire/heat: keep upwind. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions: Cool tanks/drums with water spray/remove them into safety.


SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Gloves. Face-shield. Protective clothing.

Emergency procedures: Ventilate spillage area. Mark the danger area. No naked flames. Wash contaminated clothes. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment: Contain released product, pump into suitable containers. Plug the leak, cut off the supply.

Methods for cleaning up: Take up liquid spill into absorbent material. Take up liquid spill into absorbent material sand/earth. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling


Hygiene measures: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a well-ventilated place. Keep cool.

Heat and ignition sources: KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage: KEEP SUBSTANCE AWAY FROM: oxidizing agents. reducing agents. (strong) bases. water/moisture.

Storage area: Store in a cool area. Store in a dry area. Store in a dark area. Ventilation at floor level. May be stored under argon. Meet the legal requirements.

Special rules on packaging: SPECIAL REQUIREMENTS: closing. dry. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials: SUITABLE MATERIAL: steel with plastic inner lining.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available.

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Materials for protective clothing:

GIVE GOOD RESISTANCE: rubber. plastics

Hand protection:

Gloves

Eye protection:

Face shield. Safety glasses

Skin and body protection:

Protective clothing

Respiratory protection:

Mist formation: aerosol mask
tertiary-octylphenoxypoly(ethoxyethanol)
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Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Light yellow.</td>
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<tr>
<td>Odour</td>
<td>Almost odourless.</td>
</tr>
<tr>
<td>Odour threshold</td>
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<tr>
<td>pH</td>
<td>6 - 7.5 (1 %)</td>
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<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
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<td>Melting point</td>
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<tr>
<td>Freezing point</td>
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</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 177 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 110 °C</td>
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<tr>
<td>Auto-ignition temperature</td>
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</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
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</tr>
<tr>
<td>Vapour pressure</td>
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</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
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<tr>
<td>Relative density</td>
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</tr>
<tr>
<td>Density</td>
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<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
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<tr>
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<td>Viscosity, kinematic</td>
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<td>Viscosity, dynamic</td>
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<td>Explosive properties</td>
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<tr>
<td>Oxidising properties</td>
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<td>Explosive limits</td>
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9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>VOC content</td>
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<tr>
<td>Other properties</td>
<td>Gas/vapour heavier than air at 20°C. Clear. Hygroscopic. Slightly volatile.</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Hygroscopic.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
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<tbody>
<tr>
<td>Acute toxicity (oral)</td>
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</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
tertiary-octylphenoxypoly(ethoxyethanol)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<table>
<thead>
<tr>
<th>tertiary-octylphenoxypoly(ethoxyethanol) (9036-19-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

tertiary-octylphenoxypoly(ethoxyethanol) (9036-19-5)

Viscosity, kinematic: 371.42857143 mm²/s

Potential adverse human health effects and symptoms: Practically non-toxic if swallowed (LD50 oral 2000/5000 mg/kg). Causes skin irritation. Practically non-toxic in contact with skin (LD50 skin > 2000 mg/kg). Causes serious eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Ecology - air: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Ecology - water: Mild water pollutant (surface water). Insufficient data available on ecotoxicity.

Acute aquatic toxicity: Not classified

Chronic aquatic toxicity: Not classified

12.2. Persistence and degradability

tertiary-octylphenoxypoly(ethoxyethanol) (9036-19-5)

Persistence and degradability: Biodegradability in water: no data available.

12.3. Bioaccumulative potential

tertiary-octylphenoxypoly(ethoxyethanol) (9036-19-5)

Bioaccumulative potential: No bioaccumulation data available.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

tertiary-octylphenoxypoly(ethoxyethanol) (9036-19-5)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods


Product/Packaging disposal recommendations: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery.


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### European List of Waste (LoW) code
- **15 01 10** - packaging containing residues of or contaminated by dangerous substances
- **16 03 05** - organic wastes containing dangerous substances

### SECTION 14: Transport information
In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number
- **UN-No. (ADR)**: Not regulated
- **UN-No. (IMDG)**: Not regulated
- **UN-No. (IATA)**: Not regulated
- **UN-No. (ADN)**: Not regulated
- **UN-No. (RID)**: Not regulated

#### 14.2. UN proper shipping name
- **Proper Shipping Name (ADR)**: Not regulated
- **Proper Shipping Name (IMDG)**: Not regulated
- **Proper Shipping Name (IATA)**: Not regulated
- **Proper Shipping Name (ADN)**: Not regulated
- **Proper Shipping Name (RID)**: Not regulated

#### 14.3. Transport hazard class(es)
- **ADR**
  - Transport hazard class(es) (ADR): Not regulated

- **IMDG**
  - Transport hazard class(es) (IMDG): Not regulated

- **IATA**
  - Transport hazard class(es) (IATA): Not regulated

- **ADN**
  - Transport hazard class(es) (ADN): Not regulated

- **RID**
  - Transport hazard class(es) (RID): Not regulated

#### 14.4. Packing group
- **Packing group (ADR)**: Not regulated
- **Packing group (IMDG)**: Not regulated
- **Packing group (IATA)**: Not regulated
- **Packing group (ADN)**: Not regulated
- **Packing group (RID)**: Not regulated

#### 14.5. Environmental hazards
- **Dangerous for the environment**: No
- **Marine pollutant**: No
- **Other information**: No supplementary information available

#### 14.6. Special precautions for user
- **Overland transport**: Not regulated
- **Transport by sea**: Not regulated
- **Air transport**: Not regulated
- **Inland waterway transport**: Not regulated
tertiary-octylphenoxypoly(ethoxyethanol)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

- Rail transport
  Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
  Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] is on the REACH Candidate List

4-(1,1,3-Tetramethylbutyl) phenol, ethoxylated (covering well-defined substances and UVCB substances, polymers and homologues) is on the REACH Annex XIV List:

<table>
<thead>
<tr>
<th>Authorisation number</th>
<th>Sunset date</th>
<th>REACH authorisation exemptions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>04/01/2021</td>
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VOC content : 100 %

15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |

Safety Data Sheet applicable for regions : GB - United Kingdom

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.