


SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

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

1.1 Product identifier

| | | |
|-------------------------------|--|--|
| Product name | Lysis buffer type 8; part of 'PlasmidPrep Mini Spin Kit, 250 purifications' | |
| Catalogue Number | 28-9042-70 |  |
| Component Number | 9601B | |
| Product description | Not available. | |
| Product type | Liquid. | |
| Other means of identification | Not available. | |

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

Identified uses

Analytical chemistry.
Laboratory chemicals
Scientific research and development
☒ Consumer use

1.3 Details of the supplier of the safety data sheet

| | | |
|-----------------|---|--|
| Supplier | Cytiva Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom +44 1494 508000 | Hours of operation 08.30 - 17.00 |
|-----------------|---|--|

Person who prepared the SDS : sds_author@cytiva.com

1.4 Emergency telephone number

| | | |
|----------------------------|--|---|
| United Kingdom (UK) | Cytiva UK Amersham Place Little Chalfont Buckinghamshire HP7 9NA t: 0870 606 1921 | Call INFOTRAC 24 Hour number: 001-352-323-3500 (Call Collect). |
|----------------------------|--|---|

National advisory body/Poison Centre

| | |
|----------------------------|---|
| United Kingdom (UK) | Health professionals should contact the National Poisons Information Service (NPIS) by telephone, or use TOXBASE www.toxbase.org . NPIS http://www.npis.org/ advise that others seeking specific information on poisons should contact: In England and Wales: NHS Direct - 0845 4647 or 111 In Scotland: NHS 24 - 08454 24 24 24 In N Ireland: Contact your local GP or pharmacist during normal hours; click here (www.gpoutofhours.hscni.net/) for GP services Out-of-Hours. |
|----------------------------|---|

2.1 Classification of the substance or mixture

Classification according to UK CLP/GHS

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word Warning

| | |
|--------------------------|---|
| Hazard statements | Causes skin irritation. Causes serious eye irritation. |
|--------------------------|---|

Precautionary statements

| | |
|----------------|-----------------|
| General | Not applicable. |
|----------------|-----------------|

Prevention Wear protective gloves. Wear eye or face protection. Wash thoroughly after handling.

| | |
|-----------------|---|
| Response | <p>IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse.</p> <p>IF IN EYES: 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 or attention.</p> |
|-----------------|---|

| | |
|----------------|-----------------|
| Storage | Not applicable. |
|----------------|-----------------|

| | |
|-----------------|-----------------|
| Disposal | Not applicable. |
|-----------------|-----------------|

| | |
|------------------------------------|-----------------|
| Supplemental label elements | Not applicable. |
|------------------------------------|-----------------|

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

Special packaging requirements

| | |
|---|-----------------|
| Containers to be fitted with child-resistant fastenings | Not applicable. |
|---|-----------------|

| | |
|----------------------------------|-----------------|
| Tactile warning of danger | Not applicable. |
|----------------------------------|-----------------|

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification None known.

3.2 Mixtures

See Section 16 for the full text of the H statements declared above.



There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|-----------------------------------|--|
| Eye contact | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Protection of first-aiders | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

| | |
|---------------------|--|
| Eye contact | Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | No specific data. |
| Skin contact | Adverse symptoms may include the following: irritation redness |
| Ingestion | No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|----------------------------|---|
| Notes to physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | No specific treatment. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.



| | |
|---|---|
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents. |
|---|---|

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| | |
|------------------------------------|---|
| For non-emergency personnel | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |

| | |
|--------------------------------------|---|
| 6.2 Environmental precautions | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
|--------------------------------------|---|

6.3 Methods and material for containment and cleaning up

| | |
|--------------------|---|
| Small spill | Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. |

| | |
|--|---|
| 6.4 Reference to other sections | See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information. |
|--|---|

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

| | |
|---|--|
| Protective measures | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| Advice on general occupational hygiene | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

7.2 Conditions for safe storage, including any incompatibilities

| | |
|--|---|
| | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
|--|---|

7.3 Specific end use(s)

| | |
|---|--|
| Recommendations | Analytical chemistry. Laboratory chemicals. Scientific research and development. |
| Industrial sector specific solutions | Not available. |


SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| <u>Occupational exposure limits</u> | |
|-------------------------------------|---|
| Product/ingredient name | Exposure limit values |
| sodium hydroxide | EH40/2005 WELs (United Kingdom (UK), 1/2020) STEL 15 minutes: 2 mg/m³. |
| <u>Biological exposure indices</u> | |
| No exposure indices known. | |

| | |
|--|---|
| Recommended monitoring procedures | Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required. |
|--|---|

DNELs/DMELs

| Product/ingredient name | Result |
|--|---|
|  Sodium hydroxide | DNEL - General population - Long term - Inhalation 1 mg/m³ <u>Effects:</u> Local DNEL - Workers - Long term - Inhalation 1 mg/m³ <u>Effects:</u> Local |

PNECs

Not available.

8.2 Exposure controls

| | |
|---|--|
| Appropriate engineering controls | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| Individual protection measures | |
| Hygiene measures | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Eye/face protection | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. |
| Skin protection | |
| Hand protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| Body protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |
| Environmental exposure controls | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

| | |
|---|----------------|
| Appearance | |
| Physical state | Liquid. |
| Colour | Colourless. |
| Odour | Odourless. |
| Odour threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | Not available. |

| | | | | | | |
|---|--------------------------------|-----|----------|--------------------------------|-----|--------|
| Flash point | Not applicable. | | | | | |
| Auto-ignition temperature | Not available. | | | | | |
| Ingredient name | °C | | Method | | | |
| sodium dodecyl sulphate | 310.5 | | VDI 2263 | | | |
| Decomposition temperature | Not available. | | | | | |
| Viscosity | Not available. | | | | | |
| Solubility(ies) | | | | | | |
| Media | Result | | | | | |
| cold water | Easily soluble | | | | | |
| hot water | Easily soluble | | | | | |
| Solubility in water | Not available. | | | | | |
| Partition coefficient: n-octanol/ water | Not available. | | | | | |
| Vapour pressure | Not available. | | | | | |
| | <u>Vapour Pressure at 20°C</u> | | | <u>Vapour pressure at 50°C</u> | | |
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| water | 17.5 | 2.3 | | | | |
| Evaporation rate | Not available. | | | | | |
| Relative density | Not available. | | | | | |
| Vapour density | Not available. | | | | | |
| Explosive properties | Not available. | | | | | |
| Oxidising properties | Not available. | | | | | |
| <u>Particle characteristics</u> | | | | | | |
| Median particle size | Not applicable. | | | | | |

9.2 Other information

| | | | | | | |
|---------------------|-----------------|--|--|--|--|--|
| Not available. | | | | | | |
| Burning time | Not applicable. | | | | | |
| Burning rate | Not applicable. | | | | | |
| Solubility in water | Not available. | | | | | |

SECTION 10: Stability and reactivity

| | | | | | | |
|---|--|--|--|--|--|--|
| 10.1 Reactivity | No specific test data related to reactivity available for this product or its ingredients. | | | | | |
| 10.2 Chemical stability | The product is stable. | | | | | |
| 10.3 Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur. | | | | | |
| 10.4 Conditions to avoid | No specific data. | | | | | |
| 10.5 Incompatible materials | No specific data. | | | | | |
| 10.6 Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. | | | | | |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| | | | | | | |
|------------------------------|----------------|--|--|--|--|--|
| Acute toxicity | | | | | | |
| Not available. | | | | | | |
| Conclusion/Summary [Product] | Not available. | | | | | |

Acute toxicity estimates

| | | | | | |
|---|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
| Lysis buffer type 8; part of 'PlasmidPrep Mini Spin Kit, 250 purifications' | 128800.0 | N/A | N/A | N/A | N/A |

Skin corrosion/irritation

| Product/ingredient name | Result |
|---|---|
| <div><div></div>Sodium hydroxide</div> | <div>Human - Skin - Severe irritant</div> <div>Duration of treatment/exposure: 24 hours</div> <div>Amount/concentration applied: 10 pph</div> |
| Conclusion/Summary [Product] | Not available. |
| <div><div><div>Serious eye damage/eye irritation</div></div></div> | |
| <div><div></div>Not available.</div> | |
| Conclusion/Summary [Product] | Not available. |
| <div><div><div>Respiratory corrosion/irritation</div></div></div> | |
| <div><div></div>Not available.</div> | |
| Conclusion/Summary [Product] | Not available. |
| <div><div><div>Respiratory or skin sensitization</div></div></div> | |
| <div><div></div>Not available.</div> | |
| Skin | |
| Conclusion/Summary [Product] | Not available. |
| Respiratory | |
| Conclusion/Summary [Product] | Not available. |
| <div><div><div>Germ cell mutagenicity</div></div></div> | |
| <div><div></div>Not available.</div> | |
| Conclusion/Summary [Product] | Not available. |
| <div><div><div>Carcinogenicity</div></div></div> | |
| <div><div></div>Not available.</div> | |
| Conclusion/Summary [Product] | Not available. |
| <div><div><div>Reproductive toxicity</div></div></div> | |
| <div><div></div>Not available.</div> | |
| Conclusion/Summary [Product] | Not available. |
| <div><div><div>Specific target organ toxicity (single exposure)</div></div></div> | |
| <div><div></div>Not available.</div> | |
| <div><div><div>Specific target organ toxicity (repeated exposure)</div></div></div> | |
| <div><div></div>Not available.</div> | |
| <div><div><div>Aspiration hazard</div></div></div> | |
| <div><div></div>Not available.</div> | |
| Information on likely routes of exposure | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| <div><div><div>Potential acute health effects</div></div></div> | |
| <div>Inhalation</div> | Causes serious eye irritation. |
| <div>Ingestion</div> | No known significant effects or critical hazards. |
| <div>Skin contact</div> | Causes skin irritation. |
| <div>Eye contact</div> | Causes serious eye irritation. |



Symptoms related to the physical, chemical and toxicological characteristics

| | |
|--------------|--|
| Inhalation | No specific data. |
| Ingestion | No specific data. |
| Skin contact | Adverse symptoms may include the following: irritation redness |
| Eye contact | Adverse symptoms may include the following: pain or irritation watering redness |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Potential chronic health effects


Not available.

Conclusion/Summary [Product] Not available.

| | |
|-----------------------|---|
| General | No known significant effects or critical hazards. |
| Carcinogenicity | No known significant effects or critical hazards. |
| Mutagenicity | No known significant effects or critical hazards. |
| Reproductive toxicity | No known significant effects or critical hazards. |
| Other information | Not available. |

SECTION 12: Ecological information

12.1 Toxicity


| | |
|--|--|
| Product/ingredient name | Result |
|  Sodium hydroxide | Acute - LC50 - Fresh water Fish - Western mosquitofish - <i>Gambusia affinis</i> - Adult 125 ppm [96 hours] <u>Effect:</u> Mortality |
| Conclusion/Summary [Product] | Not available. |

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] Not available.

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--|--------------------|-----|-----------|
|  Not available. | | | |

12.4 Mobility in soil

Soil/water partition coefficient Not available.

Mobility Not available.

12.5 Results of PBT and vPvB assessment

| | | | | | | | |
|--|----|----|----|----|----|----|----|
|  Sodium hydroxide | No | No | No | No | No | No | No |
|--|----|----|----|----|----|----|----|

12.6 Other adverse effects No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - | - |
| 14.3 Transport hazard class(es) | - | - | - | - |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. | No. |
| Additional information | - | - | - | - |

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

Not available.

SECTION 15: Regulatory information

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

UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.



Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name | % | Designation [Usage] |
|---|-----------------|---------------------|
| Lysis buffer type 8; part of 'PlasmidPrep Mini Spin Kit, 250 purifications' | ≥90 | 3 |
| Labelling | Not applicable. | |

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

| | |
|--|------------|
| Industrial emissions (integrated pollution prevention and control) - Air | Listed |
| Industrial emissions (integrated pollution prevention and control) - Water | Not listed |

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals


Not listed.

Inventory list

| | |
|------------------|---|
| United States | All components are listed or exempted. |
| Canada inventory | All components are listed or exempted. |
| China | All components are listed or exempted. |
| Japan | Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined. |



15.2 Chemical safety assessment This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

 Indicates information that has changed from previously issued version.

| | |
|-----------------------------------|--|
| Abbreviations and acronyms | ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative |
|-----------------------------------|--|

Procedure used to derive the classification

| Classification | Justification |
|--|---|
| Skin Irrit. 2, H315 Eye Irrit. 2, H319 | Calculation method Calculation method |
| Full text of abbreviated H statements |  H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. |
| Full text of classifications |  Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Skin Corr. 1A SKIN CORROSION/IRRITATION - Category 1A Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2 |

| | |
|---------------------------------|------------------|
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| Version | 7.03 |

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

