

SAFETY DATA SHEET

IMMULITE® 2000 ECP

SDS no.:

L2KEO2

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

1.1 Product identifier

Product name : IMMULITE® 2000 ECP
Product code : L2KEO2, L2KEO2(D), 10380874, 10385578

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

| | | |
|----------------------------|------------------------------|--------------------|
| Identified uses | ECP Reagent Wedge | Diagnostic agents. |
| | ECP Controls | Diagnostic agents. |
| | ECP Adjustors | Diagnostic agents. |
| Restrictions on use | For professional users only. | |

Supplier : Siemens Healthcare Diagnostics Limited
 Park View,
 Watchmoor Park,
 Camberley,
 Surrey,
 GU15 3YL
 United Kingdom

Phone: +44 (0) 345 600 1955

e-mail address of person responsible for this SDS : dx.msds.healthcare@siemens-healthineers.com

1.4 Emergency telephone number

CHEMTREC: +44 20 3807 3798

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

| | | |
|---------------------------|---------------------|---------|
| Product definition | : ECP Reagent Wedge | Mixture |
| | ECP Controls | Mixture |
| | ECP Adjustors | Mixture |

Classification according to UK CLP/GHS

ECP Controls

Aquatic Chronic 3, H412

ECP Adjustors

Aquatic Chronic 3, H412

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

| | | |
|--------------------|---------------------|-----------------|
| Signal word | : ECP Reagent Wedge | No signal word. |
| | ECP Controls | No signal word. |
| | ECP Adjustors | No signal word. |

SECTION 2: Hazards identification

| | | |
|---|--|---|
| Hazard statements | : ECP Reagent Wedge ECP Controls ECP Adjustors | No known significant effects or critical hazards. H412 - Harmful to aquatic life with long lasting effects. H412 - Harmful to aquatic life with long lasting effects. |
| <u>Precautionary statements</u> | | |
| Prevention | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not applicable. P273 - Avoid release to the environment. P273 - Avoid release to the environment. |
| Response | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not applicable. Not applicable. Not applicable. |
| Storage | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not applicable. Not applicable. Not applicable. |
| Disposal | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Supplemental label elements | : ECP Reagent Wedge ECP Controls ECP Adjustors | Safety data sheet available on request. Not applicable. Not applicable. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not applicable. Not applicable. Not applicable. |
| 2.3 Other hazards | | |
| Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII | : ECP Reagent Wedge ECP Controls ECP Adjustors | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. 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 | : ECP Reagent Wedge ECP Controls ECP Adjustors | None known. None known. None known. |
| Additional information | : Not available. Sodium azide may react with lead or copper plumbing to form highly explosive metal azides. | |

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SECTION 3: Composition/information on ingredients

3.1 Substances : ECP Reagent Wedge Mixture
 ECP Controls Mixture
 ECP Adjustors Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|---|---|----|---|---------|
| ECP Reagent Wedge aminocaproic acid | EC: 200-469-3 CAS: 60-32-2 | ≤5 | Eye Irrit. 2, H319 | [1] |
| ECP Controls sodium azide | EC: 247-852-1 CAS: 26628-22-8 Index: 011-004-00-7 | <1 | Acute Tox. 2, H300 Acute Tox. 1, H310 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) EUH032 | [1] [2] |
| ECP Adjustors sodium azide | EC: 247-852-1 CAS: 26628-22-8 Index: 011-004-00-7 | <1 | Acute Tox. 2, H300 Acute Tox. 1, H310 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) EUH032 See Section 16 for the full text of the H statements declared above. | [1] [2] |

Type

[1] Substance classified with a 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 | : ECP Reagent Wedge | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | ECP Controls | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | ECP Adjustors | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| Inhalation | : ECP Reagent Wedge | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |

SECTION 4: First aid measures

| | | |
|-----------------------------------|---------------------|--|
| | ECP Controls | Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | ECP Adjustors | Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Skin contact | : ECP Reagent Wedge | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | ECP Controls | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | ECP Adjustors | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Ingestion | : ECP Reagent Wedge | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| | ECP Controls | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. |
| | ECP Adjustors | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. |
| Protection of first-aiders | : ECP Reagent Wedge | No action shall be taken involving any personal risk or without suitable training. |
| | ECP Controls | No action shall be taken involving any personal risk or without suitable training. |
| | ECP Adjustors | No action shall be taken involving any personal risk or without suitable training. |

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

| | | |
|--------------------|---------------------|-------------------|
| Eye contact | : ECP Reagent Wedge | No specific data. |
| | ECP Controls | No specific data. |
| | ECP Adjustors | No specific data. |
| Inhalation | : ECP Reagent Wedge | No specific data. |
| | ECP Controls | No specific data. |
| | ECP Adjustors | No specific data. |

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SECTION 4: First aid measures

| | | |
|---------------------|--|---|
| Skin contact | : ECP Reagent Wedge ECP Controls ECP Adjustors | No specific data. No specific data. No specific data. |
| Ingestion | : ECP Reagent Wedge ECP Controls ECP Adjustors | No specific data. No specific data. No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

| | | |
|----------------------------|--|---|
| Notes to physician | : ECP Reagent Wedge ECP Controls ECP Adjustors | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Specific treatments | : ECP Reagent Wedge ECP Controls ECP Adjustors ECP Reagent Wedge ECP Controls ECP Adjustors | No specific treatment. No specific treatment. No specific treatment. Not available. Not available. Not available. |

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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous combustion products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides |

5.3 Advice for firefighters

| | |
|---|---|
| Special protective actions 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. |

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. 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). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry 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. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

- 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

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. Avoid release to the environment. 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** : Not available.

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SECTION 7: Handling and storage

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|--------------------------------------|---|
| ECP Controls sodium azide | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 0.3 mg/m ³ , (as NaN ₃) 15 minutes. TWA: 0.1 mg/m ³ , (as NaN ₃) 8 hours. |
| ECP Adjustors sodium azide | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 0.3 mg/m ³ , (as NaN ₃) 15 minutes. TWA: 0.1 mg/m ³ , (as NaN ₃) 8 hours. |

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|--------------------------------------|------|----------------------|-------------------------|--------------------|----------|
| ECP Controls sodium azide | DNEL | Long term Oral | 16.7 µg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 16.7 µg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 29 µg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 46.7 µg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.164 mg/m ³ | Workers | Systemic |
| ECP Adjustors sodium azide | DNEL | Long term Oral | 16.7 µg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 16.7 µg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 29 µg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 46.7 µg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.164 mg/m ³ | Workers | Systemic |

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

SECTION 8: Exposure controls/personal protection

- 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: safety glasses with side-shields.
- 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 | : ECP Reagent Wedge ECP Controls ECP Adjustors | Liquid. Solid. Solid. |
| Colour | : ECP Reagent Wedge ECP Controls ECP Adjustors | Colourless. Colourless. Colourless. |
| Odour | : ECP Reagent Wedge ECP Controls ECP Adjustors | Odourless. Bland. Bland. |
| Odour threshold | : Not relevant/applicable due to nature of the product. | |
| Melting point/freezing point | : Not relevant/applicable due to nature of the product. | |
| Softening point | : Not relevant/applicable due to nature of the product. | |
| Sublimation temperature | : Not relevant/applicable due to nature of the product. | |
| Initial boiling point and boiling range | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |

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SECTION 9: Physical and chemical properties

| | | |
|---|--|---|
| Flammability (solid, gas) | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. |
| Upper/lower flammability or explosive limits | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not applicable. Not applicable. |
| Flash point | : ECP Reagent Wedge ECP Controls ECP Adjustors | [Product does not sustain combustion.] [Product does not sustain combustion.] [Product does not sustain combustion.] |

| Ingredient name | Closed cup | | | Open cup | | |
|--|------------|-----|--------|----------|--------|--------|
| | °C | °F | Method | °C | °F | Method |
| ECP Reagent Wedge Sorbitan monolaurate, ethoxylated | 275 | 527 | | >149 | >300.2 | |

Auto-ignition temperature :

| Ingredient name | °C | °F | Method |
|-----------------------------------|-----|-------|---------|
| ECP Reagent Wedge sodium azide | 309 | 588.2 | EU A.16 |

Decomposition temperature : Not relevant/applicable due to nature of the product.

pH : ECP Reagent Wedge 7.95 to 8.05
ECP Controls Not applicable.
ECP Adjustors Not applicable.

Viscosity : ECP Reagent Wedge Not available.
ECP Controls Not applicable.
ECP Adjustors Not applicable.

Solubility(ies) :
Not available.

Solubility in water : Not relevant/applicable due to nature of the product.

Miscible with water : Not relevant/applicable due to nature of the product.

Partition coefficient: n-octanol/ water : Not relevant/applicable due to nature of the product.

Vapour pressure :

| Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|----------------------------|-------------------------|-----|--------|-------------------------|-----|--------|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| ECP Reagent Wedge water | 23.8 | 3.2 | | | | |

Evaporation rate : Not relevant/applicable due to nature of the product.

Relative density : ECP Reagent Wedge 1
ECP Controls >1
ECP Adjustors >1

Density : ECP Reagent Wedge Not available.
ECP Controls Not available.
ECP Adjustors Not available.

Vapour density : ECP Reagent Wedge Not available.
ECP Controls Not applicable.
ECP Adjustors Not applicable.

Explosive properties : ECP Reagent Wedge Not available.
ECP Controls Not available.
ECP Adjustors Not available.

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SECTION 9: Physical and chemical properties

Oxidising properties : ECP Reagent Wedge Not available.
 ECP Controls Not available.
 ECP Adjustors Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

Fire point : ECP Reagent Wedge Not available.
 ECP Controls Not available.
 ECP Adjustors Not available.

Burning time : Not relevant/applicable due to nature of the product.

Fundamental burning velocity : Not relevant/applicable due to nature of the product.

Burning rate : Not relevant/applicable due to nature of the product.

SADT : Not relevant/applicable due to nature of the product.

SAPT : Not relevant/applicable due to nature of the product.

Heat of reaction : Not relevant/applicable due to nature of the product.

Heat of combustion : Not relevant/applicable due to nature of the product.

Flow time (ISO 2431) : Not relevant/applicable due to nature of the product.

Molecular weight : Not relevant/applicable due to nature of the product.

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

| Product/ingredient name | Result | Species | Dose | Exposure |
|--------------------------------------|-------------|---------|----------|----------|
| ECP Controls sodium azide | LD50 Dermal | Rabbit | 20 mg/kg | - |
| | LD50 Dermal | Rat | 50 mg/kg | - |
| | LD50 Oral | Rat | 27 mg/kg | - |
| ECP Adjustors sodium azide | LD50 Dermal | Rabbit | 20 mg/kg | - |
| | LD50 Dermal | Rat | 50 mg/kg | - |
| | LD50 Oral | Rat | 27 mg/kg | - |

Conclusion/Summary : ECP Reagent Wedge Not available.
 ECP Controls Not available.
 ECP Adjustors Not available.

Acute toxicity estimates

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SECTION 11: Toxicological information

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| ECP Controls ECP Controls sodium azide | 6136.4 27 | 4545.5 20 | N/A N/A | N/A N/A | N/A N/A |
| ECP Adjustors ECP Adjustors sodium azide | 6750 27 | 5000 20 | N/A N/A | N/A N/A | N/A N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|----------------------|---------|-------|-----------------|-------------|
| ECP Reagent Wedge aminocaproic acid | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |

Conclusion/Summary

| | | |
|--------------------|--|--|
| Skin | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
| Eyes | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
| Respiratory | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |

Sensitisation

Conclusion/Summary

| | | |
|--------------------|--|--|
| Skin | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
| Respiratory | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |

Mutagenicity

Conclusion/Summary

| | |
|--|--|
| : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
|--|--|

Carcinogenicity

Conclusion/Summary

| | |
|--|--|
| : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
|--|--|

Reproductive toxicity

Conclusion/Summary

| | |
|--|--|
| : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
|--|--|

Teratogenicity

Conclusion/Summary

| | |
|--|--|
| : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
|--|--|

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

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SECTION 11: Toxicological information

Aspiration hazard

Not available.

Information on likely routes of exposure : ECP Reagent Wedge Not available.
 ECP Controls Not available.
 ECP Adjustors Not available.

Potential acute health effects

Eye contact : ECP Reagent Wedge No known significant effects or critical hazards.
 ECP Controls No known significant effects or critical hazards.
 ECP Adjustors No known significant effects or critical hazards.

Inhalation : ECP Reagent Wedge No known significant effects or critical hazards.
 ECP Controls No known significant effects or critical hazards.
 ECP Adjustors No known significant effects or critical hazards.

Skin contact : ECP Reagent Wedge No known significant effects or critical hazards.
 ECP Controls No known significant effects or critical hazards.
 ECP Adjustors No known significant effects or critical hazards.

Ingestion : ECP Reagent Wedge No known significant effects or critical hazards.
 ECP Controls No known significant effects or critical hazards.
 ECP Adjustors No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : ECP Reagent Wedge No specific data.
 ECP Controls No specific data.
 ECP Adjustors No specific data.

Inhalation : ECP Reagent Wedge No specific data.
 ECP Controls No specific data.
 ECP Adjustors No specific data.

Skin contact : ECP Reagent Wedge No specific data.
 ECP Controls No specific data.
 ECP Adjustors No specific data.

Ingestion : ECP Reagent Wedge No specific data.
 ECP Controls No specific data.
 ECP Adjustors No specific data.

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

Short term exposure

Potential immediate effects : ECP Reagent Wedge Not available.
 ECP Controls Not available.
 ECP Adjustors Not available.

Potential delayed effects : ECP Reagent Wedge Not available.
 ECP Controls Not available.
 ECP Adjustors Not available.

Long term exposure

SECTION 11: Toxicological information

| | | |
|--|--|---|
| Potential immediate effects | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
| Potential delayed effects | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
| <u>Potential chronic health effects</u> | | |
| Not available. | | |
| Conclusion/Summary | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
| General | : ECP Reagent Wedge ECP Controls ECP Adjustors | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Carcinogenicity | : ECP Reagent Wedge ECP Controls ECP Adjustors | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Mutagenicity | : ECP Reagent Wedge ECP Controls ECP Adjustors | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Reproductive toxicity | : ECP Reagent Wedge ECP Controls ECP Adjustors | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Interactive effects | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
| <u>Toxicokinetics</u> | | |
| Absorption | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
| Distribution | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
| Metabolism | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
| Elimination | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |
| Other information | : ECP Reagent Wedge ECP Controls ECP Adjustors | Not available. Not available. Not available. |

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SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--------------------------------------|-------------------------------------|---|----------|
| ECP Controls sodium azide | Acute EC50 9200 µg/l Marine water | Algae - Giant kelp - Macrocystis pyrifera | 96 hours |
| | Acute EC50 6.4 mg/l Fresh water | Crustaceans - Water flea - Simocephalus serrulatus - Larvae | 48 hours |
| | Acute EC50 4.2 mg/l Fresh water | Daphnia - Water flea - Daphnia pulex - Larvae | 48 hours |
| | Acute LC50 0.68 mg/l Fresh water | Fish - Bluegill - Lepomis macrochirus | 96 hours |
| | Chronic NOEC 5600 µg/l Marine water | Algae - Giant kelp - Macrocystis pyrifera | 96 hours |
| ECP Adjustors sodium azide | Acute EC50 9200 µg/l Marine water | Algae - Giant kelp - Macrocystis pyrifera | 96 hours |
| | Acute EC50 6.4 mg/l Fresh water | Crustaceans - Water flea - Simocephalus serrulatus - Larvae | 48 hours |
| | Acute EC50 4.2 mg/l Fresh water | Daphnia - Water flea - Daphnia pulex - Larvae | 48 hours |
| | Acute LC50 0.68 mg/l Fresh water | Fish - Bluegill - Lepomis macrochirus | 96 hours |
| | Chronic NOEC 5600 µg/l Marine water | Algae - Giant kelp - Macrocystis pyrifera | 96 hours |

Conclusion/Summary : ECP Reagent Wedge Not available.
 ECP Controls Not available.
 ECP Adjustors Not available.

12.2 Persistence and degradability

Conclusion/Summary : ECP Reagent Wedge Not available.
 ECP Controls Not available.
 ECP Adjustors Not available.

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---|--------------------|-----|-----------|
| ECP Reagent Wedge aminocaproic acid | -2.95 | - | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : ECP Reagent Wedge Not available.
 ECP Controls Not available.
 ECP Adjustors Not available.

Mobility : ECP Reagent Wedge Not available.
 ECP Controls Not available.
 ECP Adjustors Not available.

12.5 Results of PBT and vPvB assessment

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

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

SECTION 13: Disposal considerations

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. Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.

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

| | | |
|--|-------------------|----------------|
| 14.1 UN number | ECP Reagent Wedge | Not regulated. |
| | ECP Controls | Not regulated. |
| | ECP Adjustors | Not regulated. |
| 14.2 UN proper shipping name | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |
| 14.3 Transport hazard class(es) | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |
| 14.4 Packing group | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |
| 14.5 Environmental hazards | ECP Reagent Wedge | No. |
| | ECP Controls | No. |
| | ECP Adjustors | No. |
| Additional information | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |

ADN

| | | |
|-------------------------------------|-------------------|----------------|
| 14.1 UN number | ECP Reagent Wedge | Not regulated. |
| | ECP Controls | Not regulated. |
| | ECP Adjustors | Not regulated. |
| 14.2 UN proper shipping name | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |

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SECTION 14: Transport information

| | | |
|--|-------------------|-----|
| 14.3 Transport hazard class(es) | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |
| 14.4 Packing group | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |
| 14.5 Environmental hazards | ECP Reagent Wedge | No. |
| | ECP Controls | No. |
| | ECP Adjustors | No. |
| Additional information | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |

IMDG

| | | |
|--|-------------------|----------------|
| 14.1 UN number | ECP Reagent Wedge | Not regulated. |
| | ECP Controls | Not regulated. |
| | ECP Adjustors | Not regulated. |
| 14.2 UN proper shipping name | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |
| 14.3 Transport hazard class(es) | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |
| 14.4 Packing group | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |
| 14.5 Environmental hazards | ECP Reagent Wedge | No. |
| | ECP Controls | No. |
| | ECP Adjustors | No. |
| Additional information | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |

IATA

| | | |
|--|-------------------|----------------|
| 14.1 UN number | ECP Reagent Wedge | Not regulated. |
| | ECP Controls | Not regulated. |
| | ECP Adjustors | Not regulated. |
| 14.2 UN proper shipping name | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |
| 14.3 Transport hazard class(es) | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |
| 14.4 Packing group | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |

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SECTION 14: Transport information

| | | |
|-------------------------------|-------------------|-----|
| 14.5 | ECP Reagent Wedge | No. |
| Environmental hazards | ECP Controls | No. |
| | ECP Adjustors | No. |
| Additional information | ECP Reagent Wedge | - |
| | ECP Controls | - |
| | ECP Adjustors | - |

14.6 Special precautions for user : ECP Reagent Wedge

ECP Controls

ECP Adjustors

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.

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.

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 applicable.

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 : ECP Reagent Wedge
ECP Controls
ECP Adjustors

Not applicable.
Not applicable.
Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

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SECTION 15: Regulatory information

Industrial emissions (integrated pollution prevention and control) - Air : ECP Reagent Wedge Not listed
 ECP Controls Not listed
 ECP Adjustors Not listed

Industrial emissions (integrated pollution prevention and control) - Water : ECP Reagent Wedge Not listed
 ECP Controls Not listed
 ECP Adjustors Not listed

International regulations

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.

15.2 Chemical safety assessment : Not applicable.

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 |
|---|--------------------|
| ECP Controls Aquatic Chronic 3, H412 | Calculation method |
| ECP Adjustors Aquatic Chronic 3, H412 | Calculation method |

Full text of abbreviated H statements

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SECTION 16: Other information

ECP Reagent

Wedge

H319 Causes serious eye irritation.

ECP Controls

H300 Fatal if swallowed.
 H310 Fatal in contact with skin.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.
 EUH032 Contact with acids liberates very toxic gas.

ECP Adjustors

H300 Fatal if swallowed.
 H310 Fatal in contact with skin.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.
 EUH032 Contact with acids liberates very toxic gas.

Full text of classifications

ECP Reagent Wedge

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

ECP Controls

Acute Tox. 1 ACUTE TOXICITY - Category 1
 Acute Tox. 2 ACUTE TOXICITY - Category 2
 Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

ECP Adjustors

Acute Tox. 1 ACUTE TOXICITY - Category 1
 Acute Tox. 2 ACUTE TOXICITY - Category 2
 Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

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Version : 1

Notice to reader

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 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.

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