

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended by Commission Regulation (EU) 2020/878 and Regulation (EC) No. 1272/2008

Issuing Date 15-Mar-2023

Revision Date 15-Mar-2023

Revision Number 1

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

1.1. Product identifier

Product Code(s) 710124
Product Name IT Leish Buffer ampoule
Synonyms None
Pure substance/mixture Mixture

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

Recommended use Reconstitution and running buffer (component of IVD Medical Device)
Uses advised against Use only for intended applications

1.3. Details of the supplier of the safety data sheet

Supplier

Mologic Ltd t/a/ GADx
Building 10, Bedford Technology Park
Thurleigh, Bedford
MK44 2YA
UK
+44 (0)1234 780020

For further information, please contact

E-mail address info@globalaccessdiagnostics.com

1.4. Emergency telephone number

Emergency telephone +44 (0)1234 780020 (9am - 5pm, Monday - Friday)

Emergency telephone - §45 - (EC)1272/2008

Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

| | |
|--|------------------------|
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Reproductive toxicity | Category 1B - (H360FD) |
| Chronic aquatic toxicity | Category 3 - (H412) |

2.2. Label elements

Contains Disodium tetraborate decahydrate



Signal word
Danger

Hazard statements

H319 - Causes serious eye irritation
H360FD - May damage fertility. May damage the unborn child
H412 - Harmful to aquatic life with long lasting effects

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

P201 - Obtain special instructions before use
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P501 - Dispose of contents/ container in accordance with national regulations

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

Causes mild skin irritation. Toxic to aquatic life. The product does not contain any substance(s) classified as PBT or vPvB.

Endocrine Disruptor Information Contains a known or suspected endocrine disruptor.

| Chemical name | EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances |
|--|---|--|
| Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy- | Endocrine disrupting properties | - |

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---|----------|---------------------------|---------------------|---|------------------------------------|----------|----------------------|
| Disodium tetraborate decahydrate 1303-96-4 | 2.5 - <5 | 01-211949079 0-32 | (005-011-00-4) | Repr. 1B (H360FD) | - | - | - |
| Disodium dihydrogen ethylenediaminetetra | 1 - <2.5 | No data available | 205-358-3 | Acute Tox. 4 (H332) | - | - | - |

| | | | | | | | |
|--|------------|----------------------|-----------------------------|--|---|----|---|
| acetate 6381-92-6 | | | | STOT RE 2 (H373) | | | |
| Poly(oxy-1,2-ethaned iyl), α-[(1,1,3,3-tetramethyl lbutyl)phenyl]-ω-hydr oxy- 9036-19-5 | 1 - <2.5 | No data available | No information available | Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | - | 10 | 1 |
| Hydrochloric acid 7647-01-0 | 0.1 - <0.5 | 01-211948486 2-27 | (017-002-01-X) 231-595-7 | Met. Corr. 1 (H290) Skin Corr. 1B (H314) STOT SE 3 (H335) | Eye Irrit. 2 :: 10%≤C<25% Skin Corr. 1B :: C≥25% Skin Irrit. 2 :: 10%≤C<25% STOT SE 3 :: C≥10% | - | - |
| Sodium azide 26628-22-8 | 0.1 - <0.5 | 01-211945701 9-37 | (011-004-00-7) 247-852-1 | Acute Tox. 2 (H300) Acute Tox. 1 (H310) Acute Tox. 2 (H330) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH032) | - | 1 | 1 |

Full text of H- and EUH-phrases: see section 16Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---|-----------------|-------------------|---|---|---|
| Disodium tetraborate decahydrate 1303-96-4 | 3493 | 10010 | 0.002 | No data available | No data available |
| Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy- 9036-19-5 | 1700 | No data available | No data available | No data available | No data available |
| Hydrochloric acid 7647-01-0 | 277 | 5015.01 | No data available | No data available | 563.3022 |
| Sodium azide 26628-22-8 | 27 | 20 | 0.054 - 0.52 | No data available | No data available |

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

| Chemical name | CAS No | SVHC candidates |
|--|-----------|-----------------|
| Disodium tetraborate decahydrate | 1303-96-4 | X |
| Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω- hydroxy- | 9036-19-5 | X |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---|---|
| General advice | Show this safety data sheet to the doctor in attendance. |
| Inhalation | Remove to fresh air. Get medical attention if symptoms occur. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. |
| Skin contact | Wash skin with soap and water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor. |
| Self-protection of the first aider | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). |

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

| | |
|----------------------------|---|
| Symptoms | May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation. |
| Effects of Exposure | No information available. |

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

| | |
|------------------------|------------------------|
| Note to doctors | Treat symptomatically. |
|------------------------|------------------------|

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|---------------------------------------|--|
| Suitable Extinguishing Media | Dry chemical, CO ₂ , alcohol-resistant foam or water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |

5.2. Special hazards arising from the substance or mixture

| | |
|---|---------------------------|
| Specific hazards arising from the chemical | No information available. |
|---|---------------------------|

5.3. Advice for firefighters

| | |
|---|--|
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |
|---|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|---------------------------------|--|
| Personal precautions | Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid breathing vapours or mists. Use personal protective equipment as required. See section 8 for more information. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| Other information | Refer to protective measures listed in Sections 7 and 8. |
| For emergency responders | Use personal protection recommended in Section 8. |

6.2. Environmental precautions

| | |
|----------------------------------|---|
| Environmental precautions | Prevent product from entering drains. See Section 12 for additional Ecological Information. |
|----------------------------------|---|

6.3. Methods and material for containment and cleaning up

| | |
|--|---|
| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Use personal protective equipment as required. Cover liquid spill with sand, earth or other noncombustible absorbent material. Pick up and transfer to properly labelled containers. Small spill: Wipe up with absorbent material (eg. cloth, fleece). Large spill: |
| Prevention of secondary hazards | Clean contaminated objects and areas thoroughly observing environmental regulations. |

6.4. Reference to other sections

| | |
|------------------------------------|--|
| Reference to other sections | See section 8 for more information See section 13 for more information |
|------------------------------------|--|

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|---------------------------------------|--|
| Advice on safe handling | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Avoid breathing vapours or mists. Use personal protection equipment. Remove contaminated clothing and shoes. |
| General hygiene considerations | Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|---------------------------------|--|
| Storage Conditions | Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. |
| Storage class (TRGS 510) | LGK 6.1C. |

7.3. Specific end use(s)

| | |
|------------------------|---|
| Specific use(s) | The identified uses for this product are detailed in Section 1.2. |
|------------------------|---|

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|---|--|--|--|--|--|
| Disodium tetraborate decahydrate 1303-96-4 | - | - | TWA: 2 mg/m ³ STEL: 6 mg/m ³ | TWA: 5.0 mg/m ³ | TWA: 5 mg/m ³ |
| Hydrochloric acid 7647-01-0 | TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³ | TWA: 5 ppm TWA: 8 mg/m ³ STEL 10 ppm STEL 15 mg/m ³ | TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³ | STEL: 10 ppm STEL: 15.0 mg/m ³ TWA: 5 ppm TWA: 8.0 mg/m ³ | TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³ |
| Sodium azide 26628-22-8 | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ * | TWA: 0.1 mg/m ³ STEL 0.3 mg/m ³ H* | TWA: 0.1 mg/m ³ D* | STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ K* | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ * |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| Disodium tetraborate decahydrate 1303-96-4 | - | - | TWA: 2 mg/m ³ H* STEL: 4 mg/m ³ | TWA: 2 mg/m ³ STEL: 5 mg/m ³ A* | - |
| Hydrochloric acid 7647-01-0 | STEL: 10 ppm STEL: 15 mg/m ³ TWA: 5 ppm TWA: 8 mg/m ³ | TWA: 8 mg/m ³ Ceiling: 15 mg/m ³ | STEL: 5 ppm STEL: 8 mg/m ³ | TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³ | STEL: 5 ppm STEL: 7.6 mg/m ³ |
| Sodium azide 26628-22-8 | * STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ Ceiling: 0.3 mg/m ³ D* | TWA: 0.1 mg/m ³ H* STEL: 0.3 mg/m ³ | S+ TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ A* | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ iho* |
| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
| Disodium tetraborate decahydrate 1303-96-4 | TWA: 5 mg/m ³ | - | - | TWA: 10 mg/m ³ | - |
| Hydrochloric acid 7647-01-0 | STEL: 5 ppm STEL: 7.6 mg/m ³ | TWA: 2 ppm TWA: 3 mg/m ³ | TWA: 2 ppm TWA: 3.0 mg/m ³ Peak: 4 ppm Peak: 6 mg/m ³ | TWA: 5 ppm TWA: 7 mg/m ³ STEL: 5 ppm STEL: 7 mg/m ³ | TWA: 8 mg/m ³ STEL: 16 mg/m ³ |
| Sodium azide 26628-22-8 | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ * | TWA: 0.2 mg/m ³ | TWA: 0.2 mg/m ³ Peak: 0.4 mg/m ³ | TWA: 0.1 ppm TWA: 0.3 mg/m ³ STEL: 0.1 ppm STEL: 0.3 mg/m ³ | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
| Disodium tetraborate decahydrate 1303-96-4 | TWA: 5 mg/m ³ STEL: 6 mg/m ³ | - | TWA: 2 mg/m ³ STEL: 6 mg/m ³ | - | O* TWA: 2 mg/m ³ STEL: 5 mg/m ³ |
| Hydrochloric acid 7647-01-0 | TWA: 8 mg/m ³ TWA: 5 ppm STEL: 10 ppm STEL: 15 mg/m ³ | TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³ | Ceiling: 2 ppm Ceiling: 2.9 mg/m ³ | TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³ | TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³ |
| Sodium azide 26628-22-8 | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ Sk* | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ cute* | Ceiling: 0.29 mg/m ³ Ceiling: 0.11 ppm | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ Ada* | O* TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ |
| Chemical name | Luxembourg | Malta | Netherlands | Norway | Poland |
| Disodium tetraborate decahydrate 1303-96-4 | - | - | - | TWA: 5 mg/m ³ STEL: 10 mg/m ³ | STEL: 2 mg/m ³ TWA: 0.5 mg/m ³ |
| Hydrochloric acid 7647-01-0 | STEL: 10 ppm STEL: 15 mg/m ³ TWA: 5 ppm TWA: 8 mg/m ³ | STEL: 10 ppm STEL: 15 mg/m ³ TWA: 5 ppm TWA: 8 mg/m ³ | TWA: 8 mg/m ³ STEL: 15 mg/m ³ | Ceiling: 5 ppm Ceiling: 7 mg/m ³ | STEL: 10 mg/m ³ TWA: 5 mg/m ³ |
| Sodium azide 26628-22-8 | Peau* STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ | skin* STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ H* | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ | STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ skóra* |
| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
| Disodium tetraborate | TWA: 2 mg/m ³ | - | - | - | TWA: 2 mg/m ³ |

| decahydrate 1303-96-4 | STEL: 6 mg/m ³ | | | | STEL: 6 mg/m ³ |
|--|---|--|--|--|--|
| Hydrochloric acid 7647-01-0 | TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³ Ceiling: 2 ppm | TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³ | TWA: 5 ppm TWA: 8.0 mg/m ³ Ceiling: 15 mg/m ³ | TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³ | TWA: 5 ppm TWA: 7.6 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³ |
| Sodium azide 26628-22-8 | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ Ceiling: 0.29 mg/m ³ Ceiling: 0.11 ppm Cutânea* | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ P* | TWA: 0.1 mg/m ³ K* Ceiling: 0.3 mg/m ³ | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ K* | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ vía dérmica* |
| Chemical name | Sweden | | Switzerland | United Kingdom | |
| Disodium tetraborate decahydrate 1303-96-4 | NGV: 2 mg/m ³ Vägledande KGV: 5 mg/m ³ H* | | - | TWA: 5 mg/m ³ STEL: 15 mg/m ³ | |
| Hydrochloric acid 7647-01-0 | NGV: 2 ppm NGV: 3 mg/m ³ Bindande KGV: 4 ppm Bindande KGV: 6 mg/m ³ | | TWA: 2 ppm TWA: 3 mg/m ³ STEL: 4 ppm STEL: 6 mg/m ³ | TWA: 1 ppm TWA: 2 mg/m ³ STEL: 5 ppm STEL: 8 mg/m ³ | |
| Sodium azide 26628-22-8 | NGV: 0.1 mg/m ³ Bindande KGV: 0.3 mg/m ³ | | TWA: 0.2 mg/m ³ STEL: 0.4 mg/m ³ | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ Sk* | |

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

| Chemical name | Oral | Dermal | Inhalation |
|--------------------------------|------|---------------------------|---|
| Hydrochloric acid 7647-01-0 | - | - | 8 mg/m ³ [5] [6] 15 mg/m ³ [5] [7] |
| Sodium azide 26628-22-8 | - | 46.7 µg/kg bw/day [4] [6] | 0.164 mg/m ³ [4] [6] |

- [4] Systemic health effects.
 [5] Local health effects.
 [6] Long term.
 [7] Short term.

Derived No Effect Level (DNEL) - General Public

| Chemical name | Oral | Dermal | Inhalation |
|--------------------------------|---------------------------|--------|---|
| Hydrochloric acid 7647-01-0 | - | - | 8 mg/m ³ [5] [6] 15 mg/m ³ [5] [7] |
| Sodium azide 26628-22-8 | 16.7 µg/kg bw/day [4] [6] | - | 29 µg/m ³ [4] [6] |

- [4] Systemic health effects.
 [5] Local health effects.
 [6] Long term.
 [7] Short term.

Predicted No Effect Concentration (PNEC)

| Chemical name | Freshwater | Freshwater (intermittent release) | Marine water | Marine water (intermittent release) | Air |
|----------------------------|------------|-----------------------------------|--------------|-------------------------------------|-----|
| Sodium azide 26628-22-8 | 0.35 µg/L | 3.5 µg/L | 15 ng/L | 150 ng/L | - |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment | Soil | Food chain |
|----------------------------|------------------------|------------------------|------------------|------|------------|
| Sodium azide 26628-22-8 | 16.7 µg/kg sediment dw | 0.72 µg/kg sediment dw | 30 µg/L | - | - |

8.2. Exposure controls

Engineering controls

Showers
Eyewash stations
Ventilation systems.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.

Hand protection

Wear suitable gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state

Liquid

Colour

No information available

Odour

No information available

Odour threshold

No information available

Property

Values

Remarks • Method

Melting point / freezing point

No data available

Initial boiling point and boiling range

No data available

Flammability

No data available

Flammability Limit in Air

Upper flammability or explosive limits

No data available

Lower flammability or explosive limits

No data available

| | |
|----------------------------|-------------------|
| Flash point | No data available |
| Autoignition temperature | No data available |
| Decomposition temperature | No data available |
| pH | No data available |
| pH (as aqueous solution) | No data available |
| Kinematic viscosity | No data available |
| Dynamic viscosity | No data available |
| Water solubility | Miscible |
| Solubility(ies) | No data available |
| Partition coefficient | No data available |
| Vapour pressure | No data available |
| Relative density | No data available |
| Bulk density | No data available |
| Liquid Density | No data available |
| Vapour density | No data available |
| Particle characteristics | |
| Particle Size | No data available |
| Particle Size Distribution | No data available |

9.2. Other information

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity None under normal use conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong oxidising agents, strong acids, and strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure**Product Information**

| | |
|---------------------|--|
| Inhalation | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. |
| Eye contact | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. |
| Skin contact | Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. Causes mild skin irritation. |
| Ingestion | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-----------------|--|
| Symptoms | May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation. |
|-----------------|--|

Acute toxicity**Numerical measures of toxicity**

Based on available data, the classification criteria are not met.

The following values are calculated based on chapter 3.1 of the GHS document:

| | |
|--------------------------------------|-----------------|
| ATEmix (oral) | 18,578.10 mg/kg |
| ATEmix (dermal) | 18,585.20 mg/kg |
| ATEmix (inhalation-gas) | 99,999.00 ppm |
| ATEmix (inhalation-vapour) | 99,999.00 mg/l |
| ATEmix (inhalation-dust/mist) | 31.395 mg/l |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|-------------------------|--------------------------|-----------------------------------|
| Disodium tetraborate decahydrate | = 3493 mg/kg (Rat) | > 10000 mg/kg (Rabbit) | > 2 mg/m ³ (Rat) 4 h |
| Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω- hydroxy- | = 1700 mg/kg (Rat) | - | - |
| Hydrochloric acid | 238 - 277 mg/kg (Rat) | > 5010 mg/kg (Rabbit) | = 1.68 mg/L (Rat) 1 h |
| Sodium azide | = 27 mg/kg (Rat) | = 20 mg/kg (Rabbit) | 0.054 - 0.52 mg/L (Rat) 4 h |

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

| | |
|--|--|
| Skin corrosion/irritation | Classification based on data available for ingredients. Causes mild skin irritation. |
| Serious eye damage/eye irritation | Classification based on data available for ingredients. Causes serious eye irritation. |
| Respiratory or skin sensitisation | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | Contains a known or suspected reproductive toxin. Classification based on data available |

for ingredients. May damage fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name | European Union |
|----------------------------------|----------------|
| Disodium tetraborate decahydrate | Repr. 1B |

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|----------------------------|--|
| Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy- 9036-19-5 | EC50: =1.9mg/L (96h, Pseudokirchneriella subcapitata) | LC50: =0.26 mg/L (96h, Leuciscus idus) | - | EC50: =0.011mg/L (48h, Daphnia magna) |
| Sodium azide 26628-22-8 | - | LC50: =0.8mg/L (96h, Oncorhynchus mykiss) LC50: =0.7mg/L (96h, Lepomis macrochirus) LC50: =5.46mg/L (96h, Pimephales promelas) | - | - |

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

12.4. Mobility in soil

Mobility in soil No information available.

Mobility Miscible in water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

| Chemical name | PBT and vPvB assessment |
|--|---|
| Disodium dihydrogen ethylenediaminetetraacetate 6381-92-6 | The substance is not PBT / vPvB |
| Hydrochloric acid 7647-01-0 | The substance is not PBT / vPvB PBT assessment does not apply |
| Sodium azide 26628-22-8 | The substance is not PBT / vPvB PBT assessment does not apply |

12.6. Endocrine disrupting properties

Endocrine disrupting properties Contains a known or suspected endocrine disruptor. CAS 9036-19-5. 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] are identified as substances of very high concern in accordance with Article 57 (f) of Regulation (EC) 1907/2006 (REACH) because, due to their degradation, they are a relevant source in the environment of a substance of very high concern (4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octylphenol; 4-tert-OP). Therefore, there is scientific evidence of probable serious effects to the environment from these substances, through their degradation to 4-(1,1,3,3-tetramethylbutyl)phenol, which gives rise to an equivalent level of concern to those of other substances listed in points (a) to (e) of Article 57 of REACH.

12.7. Other adverse effects

Other adverse effects Contains a known or suspected endocrine disruptor. CAS 9036-19-5.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

IMDG Not regulated

14.1 UN number or ID number Not regulated

14.2 UN proper shipping name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special Provisions None

14.7 Maritime transport in bulk according to IMO instruments No information available

| | |
|---|----------------|
| RID | Not regulated |
| 14.1 UN number | Not regulated |
| 14.2 UN proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special Precautions for Users | |
| Special Provisions | None |

| | |
|---|----------------|
| ADR | Not regulated |
| 14.1 UN number or ID number | Not regulated |
| 14.2 UN proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special Precautions for Users | |
| Special Provisions | None |

| | |
|---|----------------|
| IATA | Not regulated |
| 14.1 UN number or ID number | Not regulated |
| 14.2 UN proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special Precautions for Users | |
| Special Provisions | None |
| Note: | None |

SECTION 15: Regulatory information

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

National regulations

Germany

Water hazard class (WGK) obviously hazardous to water (WGK 2)

Netherlands

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins |
|----------------------------------|-----------------------------------|--------------------------------|--|
| Disodium tetraborate decahydrate | - | - | Fertility Category 1B Development Category 1B |

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|--|---|--|
| Disodium tetraborate decahydrate - 1303-96-4 | 30. 75. | - |
| Poly(oxy-1,2-ethanediyl), | - | 42. |

| | | |
|---|-----|---|
| α -[(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy- - 9036-19-5 | | |
| Hydrochloric acid - 7647-01-0 | 75. | - |

Persistent Organic Pollutants

Not applicable

Named dangerous substances per Seveso Directive (2012/18/EU)

| Chemical name | Lower-tier requirements (tons) | Upper-tier requirements (tons) |
|-------------------------------|--------------------------------|--------------------------------|
| Hydrochloric acid - 7647-01-0 | 25 | 250 |

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Biocidal Products Regulation (EU) No 528/2012 (BPR)

| Chemical name | Biocidal Products Regulation (EU) No 528/2012 (BPR) |
|--|--|
| Disodium tetraborate decahydrate - 1303-96-4 | Product-type 8: Wood preservatives |
| Hydrochloric acid - 7647-01-0 | Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals |

International Inventories

Contact supplier for inventory compliance status

15.2. Chemical safety assessment**Chemical Safety Report**

No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

EUH032 - Contact with acids liberates very toxic gas

H290 - May be corrosive to metals

H300 - Fatal if swallowed

H302 - Harmful if swallowed

H310 - Fatal in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H318 - Causes serious eye damage

H330 - Fatal if inhaled

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H360FD - May damage fertility. May damage the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Legend

ATE: Acute Toxicity Estimate

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
 Ceiling Maximum limit value * Skin designation

| Classification procedure | |
|---|-----------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - vapour | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation | Calculation method |
| Skin sensitisation | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | On basis of test data |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
 Organisation for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

Issuing Date 15-Mar-2023

Revision Date 15-Mar-2023

Revision Note Initial Release.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet