SLS Select Education - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.2

Revision date: Date printed: 16 April 2021 25 January 2022

CHE1776SE

Section 1. Identification

| 1.1 | Product Identifier | CHE1776SE |
|-----|-------------------------------------|--|
| | Product Name | 1,6-DIAMINOHEXANE pure 25g. |
| | CAS Number REACH Registration No | 124-09-4 01-2119473981-28-XXXX |
| | Molecular Formula | $\rm NH_{2}(CH_{2})_{6}\rm NH_{2}$ =116.21 |

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier

SLS Select Education



Wilford Industrial Estate Ruddington Lane Wilford Nottingham NG11 7EP UNITED KINGDOM

| | Phone | 0115 9821111 | |
|-----|---------------------|--------------------|--------------|
| | Fax | 0115 9825275 | |
| | Email | sales@scientific-l | abs.com |
| 1.4 | Emergency Telephone | (08:00-17:00) | 0115 9821111 |
| | | (24hr) | 112 |

(24hr) (Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 1B Acute toxicity, category 4 (oral) Acute toxicity, category 4 (dermal) Spec target organ tox - single, category 3

H314: Causes severe skin burns and eye damage.H302: Harmful if swallowed.H312: Harmful in contact with skin.H335: May cause respiratory irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Danger

Hazard Pictograms



Harmful in contact with skin. Harmful if swallowed. May cause respiratory irritation. Causes severe skin burns and eye damage.

Precautionary Statements

Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Section 3. Composition

3.1 Substances

| | Component | CAS No. | EEC No. | REACH No. | Conc w/w | CLP Classification (1272/2008/CE) |
|-------|-------------------|----------|-----------|-----------------------|----------|---|
| J (1) | 1,6-Diaminohexane | 124-09-4 | 204-679-6 | 01-2119473981-28-XXXX | 98% | Skin Corr. 1B,Acute Tox. 4 (O),Acute Tox. 4 (D),STOT SE 3 (I) |

Section 4. First Aid

4.1 Description of first aid measures

| Eyes | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY. |
|--------------------------------------|--|
| Skin | Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION. |
| Inhalation | Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If conscious place in a sitting position. OBTAIN MEDICAL ATTENTION. |
| Ingestion | If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY. |
| Personal protection for first aiders | Wear protective gloves / eye protection. |

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

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing MediaWater spray, alcohol resistant foam, dry powder or carbon dioxide.Unsuitable MediaNothing specified.

5.2 Special hazards arising from the substance or mixture

May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters Advice for firefighters

Hazards

Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.

6.2 Environmental precautions

Enviromental

Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage

Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

| Component | CAS No | Concentration | Workplace 1 | Exposure Limits |
|--------------------|-----------|---------------------------------|--|---|
| | | | Long Term (8hr TWA) | Short Term 15min period) |
| 1,6-Diaminohexane | 124-09-4 | 98% | | |
| Exposure data | source(s) | No occupational exposure dat | ta currently available. | |
| 8.2 Exposure contr | ols | | | |
| Respiratory P | rotection | | tion to maintain vapour concentrations e respirator, or use self contained brea | s below exposure limits. If not, use a well athing apparatus. |
| Hand Protecti | on | Use nitrile gloves or PVC gau | intlets. | |
| Eye Protection | 1 | Use tightly fitting chemical sp | plash proof glasses or goggles. | |
| Skin Protectio | n | If skin contact or contaminati | on of clothing is likely, protective clo | thing must be worn. |
| Special Hazar | ds | No special precautions requir | ed. | |

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

| Appearance | Colourless/white crystalline solid mass. |
|-----------------------|--|
| Odour | Characteristic amine odour. |
| pH | 14 @ 20°C |
| Boiling Point | 199°C |
| Melting Point | 41°C |
| Flash Point | 85°C (Closed cup) |
| Upper Flammable Limit | 7.6 vol% |
| Lower Flammable Limit | 0.9 vol% |
| Auto Ignition | Not applicable |
| Explosive Properties | No. |
| Oxidising Properties | No. |
| Vapour Pressure | Not applicable |
| Relative Density | 0.84 @ 20°C |
| Water Solubility | Very soluble in water. |

9.2 Other information

No data available.

Section 10. Stability & Reactivity

| 10.1 | Reactivity | No data available. |
|------|-------------------------------------|---|
| 10.2 | Chemical Stability | Stable under normal conditions |
| 10.3 | Possibility of hazardous reactions | No data available. |
| 10.4 | Conditions to Avoid | No specific conditions. |
| 10.5 | Incompatable Materials | Strong oxidising agents. |
| 10.6 | Hazardous Decomposition Products | Burning will produce toxic fumes of NOx, carbon monoxide and/or carbon dioxide. |

Section 11. Toxicological Information

11.1 Information on toxicological effects

| Eyes | The liquid will cause conjunctival irritation and corneal damage. Damage can range from severe irritation and corneal scarring to permanent blindness. The vapour may be irritating to the eyes. |
|----------------------|--|
| Skin | The liquid will cause burns. |
| LD50 Skin | 1110mg/kg Rabbit |
| Ingestion | Causes severe corrosion of the mouth, throat and gastro-intestinal tract. |
| LD50 Oral | 750mg/kg Rat |
| Inhalation | Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes, nose, throat and respiratory tract. |
| LD50 Inhalation | Not available |
| TCLo | Not available |
| Carcinogenicity | Not considered to be a carcinogen. |
| Mutagenicity | Not considered to be a mutagen. |
| Reproductive Effects | None identified. |
| Other Information | The irritant effect provides warning that control of exposure is needed. |

Section 12. Ecological

| 12.1 | Toxicity | Small amounts present no specific environmental hazard. |
|------|----------------------------------|---|
| | LC50 Algal | 15mg/l Green algae (72 hours) |
| | LC50 Crustacea | 23.4mg/l Daphnia magna (48 hours) |
| | LC50 Fish | 62mg/l Fish (96 hours) |
| 12.2 | Persistence and degradability | Product is biodegradable. |
| 12.3 | Bioaccumulative potential | Not expected to bioaccumulate. |
| 12.4 | Mobility in soil | No data available. |
| 12.5 | Results of PBT & vPvB assessment | Assessment not required. |
| 12.6 | Other adverse effects | None known at present. |

Section 13. Disposal Considerations

13.1 Waste treatment methods Disposal Methods

Dispose of in a licensed incinerator. Never dispose of into water courses or sewerage systems.

Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion. Clean out with a weak hydrochloric acid solution then wash out thoroughly with water.

Section 14. Transport Information 14.1 UN Number 2280 14.2 Proper Shipping Name Hexamethylenediamine, solid 14.3 Transport classes È UN classification 8 CORROSIVE Subsidiary hazard(s) None Transport category 3 ADR Hazard ID 80 Tunnel Restriction Code Е 14.4 Packing Group III 14.5 Environment hazards See section 12. 14.6 Special precautions for No special precautions required. user 14.7 Transport in bulk Not transported in bulk.

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

| Classification | Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Acute toxicity, category 4 (dermal); Spec target organ tox - single, category 3 |
|--|--|
| Signal word | Danger |
| Hazard Pictograms | |
| Hazard Statements | H312, H302, H335, H314 Harmful in contact with skin. Harmful if swallowed. May cause respiratory irritation. Causes severe skin burns and eye damage. |
| Hazard Statements (Packs of 500ml/g or less) | H312, H302, H335, H314 Harmful in contact with skin. Harmful if swallowed. May cause respiratory irritation. Causes severe skin burns and eye damage. |
| Precautionary Statements | P280, P260, P303+P361+P353, P304+P340, P305+P351+P338, P301+P330+P331 Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| Precautionary Statements (Packs of 500ml/g or less) | P280, P260, P303+P361+P353, P305+P351+P338 Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. |

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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