CI TCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

| | ision number: 1 Revision date: 10/02/2 |
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| SECTION 1: Identification of the su | ubstance/mixture and of the company/undertaking |
| 1.1 Product identifiers | |
| Product name: | N,N'-Bis(2-hydroxyethyl)ethylenediamine |
| Product code: | B3807 |
| .2 Relevant identified uses of the subs Identified uses: | stance or mixture and uses advised against Reagents. |
| .3 Details of the supplier of the safety | data sheet |
| Supplier: | |
| TCI EUROPE N.V. | |
| Boerenveldseweg 6 | |
| Haven 1063 | |
| B-2070 Zwijndrecht | |
| Telephone: +32(0)3 735 07 00 | |
| E-mail: sales-eu@tcichemicals | .com |
| .4 Emergency telephone number: | +32(0)70 245 245 |
| SECTION 2: Hazards identification | |
| 2.1 Classification of the substance or n Skin corrosion/irritation | nixture Category 1C |
| Serious eye damage/eye irritation | Category 1 |
| | |
| Signal word Hazard statements | Danger H314-Causes severe skin burns and eye damage. |
| Precautionary statements | P260-Do not breathe dusts or mists. P280-Wear protective gloves, protective clothing, face protection. P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately ca POISON CENTER or doctor. P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothin Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. |
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| SECTION 4: First aid measures | |
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| 4.1 Description of first aid measures | |
| Inhalation: | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. |
| Skin contact: | Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician. |
| Eye contact: | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER or doctor/physician. |
| Ingestion: | Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. |
| Protection of first-aiders: | A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles. |
| 4.2 Most important symptoms and effec No data available | ts, both acute and delayed |
| 4.3 Indication of any immediate medical No data available | attention and special treatment needed |
| SECTION 5: Firefighting measures | |
| 5.1 Extinguishing media Suitable extinguishing media: | Dry chemical, foam, water spray, carbon dioxide. |
| 5.2 Special hazards arising from the substance or mixture | Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx) |
| 5.3 Advice for firefighters | Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment |
| SECTION 6: Accidental release mea | |
| 6.1 Personal precautions, protective equipment and emergency procedures | Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc |
| 6.2 Environmental precautions | Prevent product from entering drains |
| 6.3 Methods and materials for containment and cleaning up | Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. |
| 6.4 Reference to other sections | For disposal see section 13. |
| SECTION 7: Handling and storage 7.1 Precautions for safe handling | Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing. |
| 7.2 Conditions for safe storage, including any incompatibilities | Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture. |
| | Store locked up. Store away from incompatible materials such as oxidizing agents. Hygroscopic |
| 7.3 Specific end use(s) | No further relevant information available. |
| SECTION 8: Exposure controls/per | sonal protection |
| 8.1 Control parameters | No data available |
| 8.2 Exposure controls | Install a closed system or local exhaust. Also install safety shower and eye bath. |
| Respiratory protection: | Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations. |
| Hand protection: Eye protection: Skin and body protection: | Impervious gloves. Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. |
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| B3807 | N,N'-Bis(2-hydroxyethyl)ethylene | Page 2 of 5 |
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| | diamine | |

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SECTION 9: Physical and chemical properties

| SECTION 9: Physical and chemical | properties |
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| 9.1 Information on basic physical and c | hemical properties |
| Physical state (20°C): | Solid |
| Form: | Crystal - Powder |
| Colour: | White - Pale yellow |
| Odour: | No data available |
| pH: | No data available |
| Melting point/freezing point: | 99°C |
| Boiling point/range: | No data available |
| Flash point: | No data available |
| Evaporation rate(Butyl Acetate=1): | No data available |
| Flammability(solid, gas): | No data available |
| Flammability or explosive limits: | |
| Lower: | No data available |
| Upper: | No data available |
| Vapour pressure: | No data available. |
| Vapour density: | No data available |
| Relative density: | No data available |
| Solubility(ies): | |
| [Water] | Soluble |
| [Other solvents] | No data available |
| Partition coefficient: | No data available |
| n-octanol/water: | |
| Autoignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Dynamic Viscosity: | No data available |
| Kinematic viscosity: | No data available |
| 9.2 Other safety information | No data available |
| SECTION 10: Stability and reactivit | |
| 10.1 Reactivity | No data available |
| 10.2 Chemical stability | Stable under proper conditions |

| 10.1 Reactivity | NO data available |
|---|--|
| 10.2 Chemical stability | Stable under proper conditions. |
| 10.3 Possibility of hazardous reactions | No special reactivity has been reported. |
| 10.4 Conditions to avoid | No data available |
| 10.5 Incompatible materials | Oxidizing agents, Acids |
| | |

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

| SECTION 11: Toxicological information | |
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| 11.1 Information on toxicological effects | |
| Acute Toxicity: | No data available |
| Skin corrosion/irritation: | No data available |
| Serious eye damage/irritation: | No data available |
| Respiratory or skin sensitization: | No data available |
| Germ cell mutagenicity: | No data available |
| Carcinogenicity: | |
| IARC = | No data available |
| NTP = | No data available |
| Reproductive toxicity: | No data available |
| STOT-single exposure: | No data available |
| STOT-repeated exposure: | No data available |
| Aspiration hazard: | No data available |

| SECTION 12: Ecological Information 12.1 Toxicity Fish: No data available Algae: No data available Algae: No data available 12.2 Persistence and degradability No data available 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil Log Pow: Log Pow: No data available Soil adsorption (Koc): No data available 12.5 Results of PBT and vPVB assessment PBT: PBT: Not applicable vPvB: Not applicable VPVB: Not applicable SECTION 13: Disposal considerations 13.1 Waste treatment methods SECTION 13: Disposal considerations 13.1 Waste treatment methods SECTION 14: Transport information 14.1 UN number 3259 14.2 UN proper shipping name ADR/RID Polyamines, solid, corrosive, n.o.s MDC/IMO Polyamines, solid, corrosive, n.o.s ILCO/IATA Polyamines, solid, corrosive, n.o.s NDR/RID Polyamines, solid, corrosive, n.o.s MDR/RID Bolyamines, solid, corrosive, n.o.s | 12.1 Toxicity | |
|--|---|---|
| Fish: No data available Crustacea: No data available Algae: No data available 12.2 Persistence and degradability No data available 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil Log Pow: Log Pow: No data available Soil adsorption (Koc): No data available 12.5 Results of PBT and vPvB assessment PBT: PBT: Not applicable vPvB: Not applicable 12.5 Other adverse effects No data available SECTION 13: Disposal considerations Tast available 12.5 Process, if possible. Consult vour local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance. SECTION 14: Transport information 3259 14.1 UN number 3259 14.3 Transport hazard class(es) Polyamines, solid, corrosive, n.o.s MDG/INO Polyamines, solid, corrosive, n.o.s MDG/INO 8: Corrosive MDG/INO 8: Corrosive MDG/INO 8: Corrosive | - | |
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| Algae: No data available 12.2 Persistence and degradability No data available 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil Soil adsorption (Koc): Log Pow: No data available Soil adsorption (Koc): No data available Henry's Law (PaM Ymol): No data available 12.5 Results of PBT and vPvB assessment PBT: PBT: Not applicable 12.6 Other adverse effects No data available 12.6 Other adverse effects No data available SECTION 13: Disposal considerations 131 13.1 Waste treatment methods Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chernical incinerator equilations when disposing of the substance. SECTION 14: Transport Information 14.1 UN number 14.2 UN proper shipping name ADR/RID ADR/RID Polyamines, solid, corrosive, n.o.s IMOS/IMO Polyamines, solid, corrosive, n.o.s IA3 Transport hazard class(es) ADR/RID ADR/RID 8: Corrosive IMOS/IMO 8: Corrosive IGAO/IATA 8: Corrosive | | |
| 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil Log Pow: No data available Soil adsorption (Koc): No data available Soil adsorption (Koc): No data available Henry's Law (PaM ³ /mol): No data available PBT: Not applicable PPT: Not applicable VPVB: Not applicable SECTION 13: Disposal considerations 13.1 Waste treatment methods Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance. SECTION 14: Transport information 14.1 UN number 3259 14.2 UN proper shipping name ADR/RID ADR/RID Polyamines, solid, corrosive, n.o.s ICAO/IATA Polyamines, solid, corrosive, n.o.s 14.3 Transport hazard class(es) ADR/RID ADR/RID 8: Corrosive ICAO/IATA 8: Corrosive ICAO/IATA 8: Corrosive ICAO/IATA 8: Corrosive IA Packaging group ADR/RID | | |
| 12.4 Mobility in soil No data available Soil adsorption (Koc): No data available Soil adsorption (Koc): No data available 12.5 Results of PBT and vPvB assessment PBT: Not applicable vPvB: Not applicable 12.6 Other adverse effects No data available SECTION 13: Disposal considerations 13.1 Waste treatment methods Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance. SECTION 14: Transport information 14.1 UN number 3259 14.2 UN proper shipping name ADR/RID Polyamines, solid, corrosive, n.o.s iDAG/IMO ADR/RID 8: Corrosive MIMG/IMO ADR/RID 8: Corrosive ADR/RID 8: Corrosive MDG/IMO 8: Corrosive MDG/IMO 8: Corrosive MDG/IMO 8: Corrosive | 12.2 Persistence and degradability | No data available |
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SECTION 15: Regulatory information

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Substance of Very High Concern (SVHC) according to the Not listed REACH Regulations (EC) No.1907/2006
 Not listed

No data available

15.2 Chemical safety assessment

14.6 Special precautions for user

A chemical safety assessment has not been carried out.

| SECTION 16: Other information | |
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| Prepared by: Issue date: | TCI EUROPE N.V. 10/02/2018 |
| Issue date: | 10/02/2018 |

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet