



Material Safety Data Sheet

| NFPA | HMIS | Personal Protective Equipment |
|------|-------------------------------|-------------------------------|
| 210 | Health Hazard 2 Fire Hazard 1 | |
| | Reactivity | See Section 15. |

| Section 1. Chemical Product and Company Identification | | | | Page Number: 1 |
|--|--|--|-----------------------|--|
| Common Name/ Trade Name | n,n-Butyldiethanolamine | | Catalog Number(s). | B2268 |
| | | | CAS# | 102-79-4 |
| Manufacturer | SPECTRUM QUALITY PRODUCTS INC. | | RTECS | KK0525000 |
| | 14422 S. SAN PEDRO STREET GARDENA, CA 90248 | | TSCA | TSCA 8(b) inventory: n,n-Butyldiethanolamine |
| Commercial Name(s) | Not available. | | CI# | Not available. |
| Synonym | 2,2'-(Butylimino)diethanol | | DI CACE OF | THE CENCY |
| Chemical Name | Not available. | | | EMERGENCY C (24hr) 800-424-9300 |
| Chemical Family | Not available. | | CALL (310) 5 | 16-8000 |
| Chemical Formula | C8H19NO2 | | | |
| Supplier | SPECTRUM QUALITY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248 | | | |

| Section 2.Composition and Information on Ingredients | | | | | | |
|--|--|----------|-------------|-----------------|--------------|-------------|
| | | | | Exposure Limits | | |
| Name | | CAS# | TWA (mg/m³) | STEL (mg/m³) | CEIL (mg/m³) | % by Weight |
| 1) {n,n-}Butyldiethanolamine | | 102-79-4 | | | | 100 |
| Toxicological Data n,n-Butyldiethanolamine: on Ingredients ORAL (LD50): Acute: 4250 mg/kg [Rat]. | | | | | | |

Section 3. Hazards Identification Potential Acute Health Effects Hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation (lung

irritant).

Potential Chronic Health Effects CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

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|---------------------------------|--|--|
| Section 4. First Aid Measures | | |
| Eye Contact | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention. | |
| Skin Contact | In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. | |
| Serious Skin Contact | Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention. | |
| Inhalation | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. | |
| Serious Inhalation | Not available. | |
| Ingestion | Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if | |

symptoms appear.

Not available.

Serious Ingestion

| Section 5. Fire and E. | Section 5. Fire and Explosion Data | | |
|---|---|--|--|
| Flammability of the Product | May be combustible at high temperature. | | |
| Auto-Ignition Temperature | Not available. | | |
| Flash Points | Not available. | | |
| Flammable Limits | Not available. | | |
| Products of Combustion | These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2). | | |
| Fire Hazards in Presence of Various Substances | Not available. | | |
| Explosion Hazards in Presence of Various Substances | Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. | | |
| Fire Fighting Media and Instructions | SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. | | |
| Special Remarks on Fire Hazards | Not available. | | |
| Special Remarks on Explosion Hazards | Not available. | | |

| Section 6. Accidental Release Measures | | |
|--|--|--|
| Small Spill | Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. | |
| Large Spill | Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. | |

| n,n-Butyldiet | panolamine Page Number: 3 |
|----------------|--|
| Section 7. Har | dling and Storage |
| Precautions | Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. |

Keep container tightly closed. Keep container in a cool, well-ventilated area.

| Section 8. Exposure Controls/Personal Protection | | |
|--|---|--|
| Engineering Controls | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location. | |
| Personal Protection | Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. | |
| Personal Protection in Case of a Large Spill | Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. | |
| Exposure Limits | Not available. | |

| Section 9. Physical a | nd Chemical Properties | | |
|-------------------------------|-------------------------------|-------|------------------|
| Physical state and appearance | Liquid. (Oily liquid.) | Odor | Not available. |
| Molecular Weight | 161.25 g/mole | Taste | Not available. |
| pH (1% soln/water) | Not available. | Color | Yellow or brown. |
| Boiling Point | 274°C (525.2°F) | | |
| Melting Point | -70°C (-94°F) | | |
| Critical Temperature | Not available. | | |
| Specific Gravity | 0.968 (Water = 1) | | |
| Vapor Pressure | Not available. | | |
| Vapor Density | Not available. | | |
| Volatility | Not available. | | |
| Odor Threshold | Not available. | | |
| Water/Oil Dist. Coeff. | Not available. | | |
| Ionicity (in Water) | Not available. | | |
| Dispersion Properties | See solubility in water. | | |
| Solubility | Easily soluble in cold water. | | |

| Section 10. Stability and Reactivity Data | | |
|---|--|--|
| The product is stable. | | |
| Not available. | | |
| Not available. | | |
| Not available. | | |
| Non-corrosive in presence of glass. | | |
| | | |

Continued on Next Page

Storage

| n,n-Butyldiethanolamine | | Page Number: 4 |
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| Special Remarks on Reactivity | Not available. | |
| Special Remarks on Corrosivity | Not available. | |
| Polymerization | Will not occur. | |

| Section 11. Toxicological Information | | |
|---|---|--|
| Routes of Entry | Dermal contact. Eye contact. Ingestion. | |
| Toxicity to Animals | Acute oral toxicity (LD50): 4250 mg/kg [Rat]. | |
| Chronic Effects on Humans | Not available. | |
| Other Toxic Effects on Humans | Hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation (lung irritant). | |
| Special Remarks on Toxicity to Animals | Not available. | |
| Special Remarks on Chronic Effects on Humans | Not available. | |
| Special Remarks on other Toxic Effects on Humans | Not available. | |

| Section 12. Ecological Information | | |
|---|---|--|
| Ecotoxicity | Not available. | |
| BOD5 and COD | Not available. | |
| Products of Biodegradation | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. | |
| Toxicity of the Products of Biodegradation | The products of degradation are more toxic. | |
| Special Remarks on the Products of Biodegradation | Not available. | |

Section 13. Disposal Considerations

Waste Disposal

| Section 14. Transport Information | | | |
|-------------------------------------|--|--|--|
| DOT Classification | Not a DOT controlled material (United States). | | |
| Identification | Not applicable. | | |
| Special Provisions for Transport | Not applicable. | | |
| DOT (Pictograms) | | | |

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Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations Pennsylvania RTK: n,n-Butyldiethanolamine

Florida: n,n-Butyldiethanolamine

Massachusetts RTK: n,n-Butyldiethanolamine TSCA 8(b) inventory: n,n-Butyldiethanolamine

California
Proposition 65

Proposition Warnings

Other Regulations Not available.

Other Classifications

WHMIS (Canada) Not controlled under WHMIS (Canada).

DSCL (EEC) R36/37/38- Irritating to eyes, respiratory system and skin.

HMIS (U.S.A.)



National Fire Protection Association (U.S.A.)

Health



WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Vapor respirator. Be sure to use an approved/certified respirator or equivalent.



Splash goggles.

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| Section 16. Other Information | | |
|---------------------------------------|----------------|--|
| MSDS Code | 6545B | |
| References | Not available. | |
| Other Special Considerations | Not available. | |
| Validated by Sonia Owen on 8/11/2006. | | Verified by Sonia Owen. Printed 9/11/2006. |
| G177 (24)) F1 C 0000 | | |

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.