

# SAFETY DATA SHEET

Sid Harvey item # 4166-08 SDS # 20398

|  | 1. Product and Company le   | dentification  |
|--|---|--|
| Product identifier                           | Evap-Fresh No Rinse Evaporator Clea   | ner & Disinfectant (4166-08)                                 |
| Other means of identification                | Not available   |  |
| Recommended use                              | Not available.  |  |
| Recommended restrictions                     | None known.   |  |
| Manufacturer/Importer/Supplier/I             | Distributor information   |  |
| Manufacturer                                 |   |  |
| Company name                                 | Nu-Calgon   |  |
| Address                                      | 2008 Altom Court  |  |
|  | St. Louis, MO 63146<br>United States  |  |
| Telephone                                    | 314-469-7000 / 800-554-5499   |  |
| E-mail                                       | info@nucalgon.com   |  |
| Emergency phone number                       | 1-800-424-9300 (CHEMTREC)   |  |
|  | 2. Hazards Identific  | ation  |
| Physical hazards                             | Not classified.   |  |
| Health hazards                               | Skin corrosion/irritation   | Category 1   |
|  | Serious eye damage/eye irritation   | Category 1   |
| Environmental hazards                        | Not classified.   | Calegory   |
| OSHA defined hazards                         | Not classified.   |  |
| Label elements                               | Not classified.   |  |
| <b>.</b>                                     |   |  |
| Signal word                                  | Danger  |  |
| Hazard statement                             | Causes severe skin burns and eye dama   | age.   |
| Precautionary statement                      |   |  |
| Prevention                                   | Do not breathe mist or vapor.<br>Wash thoroughly after handling.  |  |
|  | Wear protective gloves/protective clothin   | g/eye protection/face protection.                            |
| Response                                     | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>Wash contaminated clothing before reuse.<br>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and |  |
|  | easy to do. Continue rinsing.<br>If inhaled: Remove person to fresh air and keep comfortable for breathing.<br>If swallowed: Rinse mouth. Do NOT induce vomiting.<br>Immediately call a poison center/doctor.<br>Specific treatment (see this label). |  |
| Storage                                      | Store locked up.  |  |
| Disposal                                     | Dispose of contents/container in accordation  | ance with local/regional/national/international regulations. |
| Hazard(s) not otherwise<br>classified (HNOC) | None known.   | -  |
| Supplemental information                     | This is a registered EPA product. The proguidelines.  | oduct labeling is in compliance with EPA regulations and     |
|  | 3. Composition/Information  | on Ingredients   |

| Mixtures |
|----------|
|----------|

| wixtures                                 |                          |            |        |
|--|--------------------------|------------|--------|
| Chemical name                            | Common name and synonyms | CAS number | %      |
| Diethylene glycol monobutyl ether        |                          | 112-34-5   | 5 - 10 |
| Tetrasodium ethylenediamine tetraacetate |                          | 64-02-8    | 3 - 7  |

| Chemical name  | Common name and synonyms   | CAS number  | %   |
|--|--|---|---|
| n- Alkyl (60% C14, 30% C16, 59<br>C12, 5% C18) dimethyl benzyl<br>ammonium chlorides | %  | 68391-01-5  | < 0.1   |
| n- Alkyl (68% C12, 32% C14)<br>dimethyl ethylbenzyl ammonium<br>chlorides            | 1  | 85409-23-0  | < 0.1   |
| Composition comments   | US GHS: The exact percentage (concentration) secret in accordance with paragraph (i) of §1910  |   | vithheld as a trade   |
|  | 4. First Aid Measures  |   |   |
| Inhalation   | Move person to fresh air. If person is not breathi<br>respiration, preferably mouth-to-mouth if possible<br>treatment advice.  |   |   |
| Skin contact   | If on skin or clothing: Take off contaminated cloth<br>for 15-20 minutes. Call a poison control centre o   |   |   |
| Eye contact  | Hold eye open and rinse slowly and gently with v<br>present, after the first 5 minutes, then continue r<br>for treatment advice.   |   |   |
| Ingestion  | Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center of doctor. Do not give anything by mouth to an unconscious person.                              |   |   |
| Most important<br>symptoms/effects, acute and<br>delayed                             | Burning pain and severe corrosive skin damage.<br>Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and<br>blurred vision. Permanent eye damage including blindness could result.  |   |   |
| Indication of immediate<br>medical attention and special<br>treatment needed         | Treat patient symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.   |   |   |
| General information  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes, skin and clothing. Wear rubber gloves and chemical splash goggles. Keep out of reach of children. |   |   |
|  | 5. Fire Fighting Measures  |   |   |
| Suitable extinguishing media   | Water fog. Foam. Dry chemical powder. Carbon   | dioxide.  |   |
| Unsuitable extinguishing media   | Not available.   |   |   |
| Specific hazards arising from the chemical   | During fire, gases hazardous to health may be formed.  |   |   |
| Special protective equipment<br>and precautions for firefighters                     | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  |   | rn in case of fire.   |
| Fire-fighting<br>equipment/instructions  | Move containers from fire area if you can do so without risk.  |   |   |
| Specific methods   | Use standard firefighting procedures and consid  | er the hazards of other inv   | olved materials.  |
| General fire hazards   | No unusual fire or explosion hazards noted.  |   |   |
|  | 6. Accidental Release Measu  | res   |   |
| Personal precautions,<br>protective equipment and<br>emergency procedures            | Keep people away from and upwind of spill/leak.<br>ventilation. Do not touch damaged containers or<br>protective clothing. Local authorities should be a<br>For personal protection, see section 8 of the SDS  | spilled material unless we<br>dvised if significant spillag                               | aring appropriate   |
| Methods and materials for<br>containment and cleaning up                             | Stop the flow of material, if this is without risk. Di<br>Cover with plastic sheet to prevent spreading. Al<br>into containers. Never return spills in original cor<br>remove residual contamination. Following produ-<br>into waterways, sewer, basements or confined a                             | bsorb in vermiculite, dry sa<br>ntainers for re-use. Clean<br>ct recovery, flush area wit | and or earth and place<br>surface thoroughly to<br>h water. Prevent entry |
|  | SDS.   |   |   |

| 7. Handling and Storage                                      |   |  |
|--|---|--|
| Precautions for safe handling                                | It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.<br>Avoid contact with eyes, skin and clothing.<br>Do not breathe mist or vapor.<br>Provide adequate ventilation.<br>Wear appropriate personal protective equipment.<br>Avoid prolonged exposure. |  |
| Conditions for safe storage, including any incompatibilities | Store locked up.<br>Store in original tightly closed container.<br>Store away from incompatible materials (see Section 10 of the SDS).<br>Keep out of reach of children.  |  |

## 8. Exposure Controls/Personal Protection

| Occupational exposure limits                     |  |                              |                               |
|--|--|------------------------------|-------------------------------|
| US. ACGIH Threshold Limit<br>Components          | values<br>Type   | Value                        | Form                          |
| Diethylene glycol monobutyl ether (CAS 112-34-5) | TWA  | 10 ppm                       | Inhalable fraction and vapor. |
| Biological limit values                          | No biological exposure limits noted for  | the ingredient(s).           |                               |
| Exposure guidelines                              | Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL. |                              |                               |
| Appropriate engineering<br>controls              | Ensure adequate ventilation.   |                              |                               |
| Individual protection measures,                  | such as personal protective equipmer   | nt                           |                               |
| Eye/face protection                              | Wear safety glasses with side shields (  | or goggles) and a face shiel | d.                            |
| Skin protection                                  |  |                              |                               |
| Hand protection                                  | Rubber gloves. Confirm with a reputab  | le supplier first.           |                               |
| Other  | As required by employer code.  |                              |                               |
| Respiratory protection                           | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.                                 |                              |                               |
| Thermal hazards                                  | Not applicable.  |                              |                               |
| General hygiene<br>considerations                | Handle in accordance with good indust<br>and immediately after handling the proc                                   | ,0                           |                               |

# 9. Physical and Chemical Properties

| Appearance                                 | Clear                    |
|--|--------------------------|
| Physical state                             | Liquid.                  |
| Form                                       | Liquid.                  |
| Color                                      | Not available.           |
| Odor                                       | Not available.           |
| Odor threshold                             | Not available.           |
| рН   | 11.7                     |
| Melting point/freezing point               | > 32 °F (> 0 °C)         |
| Initial boiling point and boiling range    | 212 °F (100 °C)          |
| Pour point                                 | Not available.           |
| Specific gravity                           | 1.007 g/ml (8.38 lb/gal) |
| Partition coefficient<br>(n-octanol/water) | Not available.           |
| Flash point                                | Not available.           |
| Evaporation rate                           | Not available.           |
| Flammability (solid, gas)                  | Not applicable.          |
| Upper/lower flammability or exp            | losive limits            |
| Flammability limit - lower<br>(%)          | Not available.           |
| Flammability limit - upper<br>(%)          | Not available.           |
| Explosive limit - lower (%)                | Not available.           |
| Explosive limit - upper (%)                | Not available.           |
|  |                          |

| Vapor pressure            | Not available. |
|---------------------------|----------------|
| Vapor density             | Not available. |
| Relative density          | Not available. |
| Solubility(ies)           | Complete       |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity                 | Not available. |
|                           |                |

|                                       | 10. Stability and Reactivity                          |  |
|---------------------------------------|---|--|
| Reactivity                            | May react with incompatible materials.                |  |
| Possibility of hazardous<br>reactions | Hazardous polymerization does not occur.              |  |
| Chemical stability                    | Material is stable under normal conditions.           |  |
| Conditions to avoid                   | Do not mix with other chemicals.                      |  |
| Incompatible materials                | Strong oxidizing agents.                              |  |
| Hazardous decomposition<br>products   | May include and are not limited to: Oxides of carbon. |  |

# **11. Toxicological Information**

| Information on likely routes of exposure   |   |  |
|--|---|--|
| Ingestion  | Not a normal route of exposure. May cause stomach distress, nausea or vomiting.   |  |
| Inhalation   | Prolonged inhalation may be harmful.  |  |
| Skin contact   | Causes severe skin burns.   |  |
| Eye contact  | Causes serious eye damage.  |  |
| Symptoms related to the<br>physical, chemical and<br>toxicological characteristics | Burning pain and severe corrosive skin damage.<br>Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and<br>blurred vision. Permanent eye damage including blindness could result. |  |

### Information on toxicological effects

| Acute toxicity             |                               |              |
|----------------------------|-------------------------------|--------------|
| Components                 | Species                       | Test Results |
| Diethylene glycol monobuty | l ether (CAS 112-34-5)        |              |
| Acute                      |                               |              |
| Dermal                     |                               |              |
| LD50                       | Rabbit                        | 2700 mg/kg   |
| Inhalation                 |                               |              |
| LC50                       | Not available                 |              |
| Oral                       |                               |              |
| LD50                       | Guinea pig                    | 2000 mg/kg   |
|                            | Mouse                         | 2400 mg/kg   |
|                            | Rabbit                        | 2200 mg/kg   |
|                            | Rat                           | 3384 mg/kg   |
| Tetrasodium ethylenediamir | ne tetraacetate (CAS 64-02-8) |              |
| Acute                      |                               |              |
| Dermal                     |                               |              |
| LD50                       | Not available                 |              |
| Inhalation                 |                               |              |
| LC50                       | Not available                 |              |
| Oral                       |                               |              |

| erai                                 |  |            |
|--------------------------------------|--|------------|
| LD50                                 | Rat                                      | 1658 mg/kg |
| Skin corrosion/irritation            | Causes severe skin burns and eye damage. |            |
| Exposure minutes                     | Not available.                           |            |
| Erythema value                       | Not available.                           |            |
| Oedema value                         | Not available.                           |            |
| Serious eye damage/eye<br>irritation | Causes serious eye damage.               |            |

| Corneal opacity value                                 | Not available.   |  |  |
|---|--|--|--|
| Iris lesion value                                     | Not available.   |  |  |
| Conjunctival reddening value                          | Not available.   |  |  |
| Conjunctival oedema value                             | Not available.   |  |  |
| Recover days  | Not available.   |  |  |
| Respiratory or skin sensitization                     |  |  |  |
| <b>Respiratory sensitization</b>                      | Not available.   |  |  |
| Skin sensitization                                    | This product is not expected to cause skin sensitization.  |  |  |
| Germ cell mutagenicity                                | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |  |  |
| Carcinogenicity                                       | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |  |  |
| US. OSHA Specifically Regu                            | lated Substances (29 CFR 1910.1001-1050)   |  |  |
| Not listed.   |  |  |  |
| Reproductive toxicity                                 | This product is not expected to cause reproductive or developmental effects.                                     |  |  |
| Specific target organ toxicity -<br>single exposure   | Not classified.  |  |  |
| Specific target organ toxicity -<br>repeated exposure | Not classified.  |  |  |
| Aspiration hazard                                     | Not classified.  |  |  |
| Chronic effects                                       | Prolonged inhalation may be harmful.   |  |  |
| Further information                                   | Not available.   |  |  |
| 12. Ecological Information                            |  |  |  |
|   |  |  |  |

| Ecotoxicity   | See below   |   |                          |
|---|---|---|--------------------------|
| Components  |   | Species                                   | Test Results             |
| Diethylene glycol monobutyl                                 | ether (CAS 112-   | 34-5)                                     |                          |
| Crustacea   | EC50  | Daphnia                                   | 2850 mg/L, 48 Hours      |
| Aquatic   |   |   |                          |
| Fish  | LC50  | Bluegill (Lepomis macrochirus)            | 1300 mg/L, 96 hours      |
| Tetrasodium ethylenediamin                                  | e tetraacetate (C   | AS 64-02-8)                               |                          |
| Algae   | EC50  | Algae                                     | 1.01 mg/L, 72 Hours      |
| Aquatic   |   |   |                          |
| Crustacea   | EC50  | Water flea (Daphnia magna)                | 610 mg/L, 24 hours       |
| Fish  | LC50  | Bluegill (Lepomis macrochirus)            | 472 - 500 mg/L, 96 hours |
| Persistence and degradability                               | No data is av   | ailable on the degradability of this prod | luct.                    |
| Bioaccumulative potential                                   | No data available.  |   |                          |
| Partition coefficient n-octa<br>Diethylene glycol monobutyl |   | <b>Kow)</b><br>0.56                       |                          |
| Mobility in soil  | No data available.  |   |                          |
| Mobility in general   | Not available.  |   |                          |
| Other adverse effects                                       | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |   |                          |
|   |   | 13. Disposal Considerations               |                          |
| Disposal instructions                                       | Dispose of contents/container in accordance with local/regional/national/international regulations  |   |                          |

| Disposal instructions      | Dispose of contents/container in accordance with local/regional/national/international regulations.<br>Nonrefillable container. Do not reuse or refill the container. Triple rinse as follows: Fill container<br>1/4 full with water and recap. Shake for 10 seconds. Follow Pesticide Disposal instructions for<br>rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat procedure 2 more<br>times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary<br>landfill.<br>PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess<br>pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed<br>of by use according to label instructions, contact your State Pesticide or Environmental Control<br>Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. |
|----------------------------|--|
| Local disposal regulations | Dispose in accordance with all applicable regulations.   |
| Hazardous waste code       | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport Information

| nts:   |
|--|
| UN1760   |
| Corrosive liquids, n.o.s. (Sodium metasilicate pentahydrate) |
| Limited Quantity - US  |
| III  |
| IB3, T7, TP1, TP28   |
| 154  |
|  |

#### DOT



|   | 15. Regul  | atory Informatior   | 1   |
|---|--|---|---|
| US federal regulations                    | Standard, 29 CFR 1910.12<br>This chemical is a pesticid<br>Agency and is subject to c<br>requirements differ from th<br>sheets (SDS), and for wor<br>required on the pesticide la<br>important information, inclu<br>PRECAUTIONARY STATE<br>Hazards to humans and D<br>CAUTION: Causes moder | 200.<br>le product registered b<br>ertain labeling require<br>ne classification criteria<br>kplace labels of non-p<br>abel is reproduced bel<br>uding directions for us<br>EMENTS:<br>omestic animals.<br>ate eye irritation. Avoir<br>handling and before er | ned by the OSHA Hazard Communication<br>by the United States Environmental Protection<br>ments under federal pesticide law. These<br>a and hazard information required for safety data<br>esticide chemicals. The hazard information<br>low. The pesticide label also includes other<br>e.<br>d contact with eyes and clothing. Wash thorough<br>ating and drinking, chewing gum, using tobacco o |
| TSCA Section 12(b) Export                 |  |   |   |
| Not regulated.<br>CERCLA Hazardous Substa | ance List (40 CFR 302.4)   |   |   |
| US. OSHA Specifically Reg                 | utyl ether (CAS 112-34-5)<br>ulated Substances (29 CFR   | Listed.<br>1910.1001-1050)  |   |
| Not listed.                               |  | <b></b>   |   |
| Superfund Amendments and Re               | •  | SARA)   |   |
| Hazard categories                         | Immediate Hazard - Yes<br>Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No  |   |   |
| SARA 302 Extremely<br>hazardous substance | No   |   |   |
| SARA 311/312 Hazardous chemical           | No   |   |   |
|   |  |   | <b>0</b> ( based  |
| SARA 313 (TRI reporting)<br>Chemical name |  | CAS number  | % by wt.  |
|   | utyl ether   | CAS number<br>112-34-5  | 5 - 10  |

Diethylene glycol monobutyl ether (CAS 112-34-5)

| Clean Air Act (CAA) Section                  | n 112(r) Accidental Release Pre                                 | evention (40 CFR 68.130)                             |                     |
|--|---|--|---------------------|
| Not regulated.                               |   |  |                     |
| Safe Drinking Water Act<br>(SDWA)            | Not regulated.  |  |                     |
| Food and Drug<br>Administration (FDA)        | Not regulated.  |  |                     |
| US state regulations                         | This product does not contain defects or other reproductive     | a chemical known to the State of California to harm. | cause cancer, birth |
| US - California Proposi                      | tion 65 - Carcinogens & Repro                                   | ductive Toxicity (CRT): Listed substance             |                     |
| Not listed.<br>US - Illinois Chemical S      | afety Act: Listed substance                                     |  |                     |
| , , ,  | pnobutyl ether (CAS 112-34-5)<br>porting List: Reportable quant | Listed.<br>ity (total mass into atmosphere)          |                     |
| , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,      | pnobutyl ether (CAS 112-34-5) porting: Listed substance         | 100 LBS  |                     |
| , ,,   | onobutyl ether (CAS 112-34-5)<br>Substances: Listed substance   | Listed.  |                     |
|  | onobutyl ether (CAS 112-34-5)<br>eening Levels: Listed substand | Listed.<br>c <b>e</b>                                |                     |
| , ,,   | pnobutyl ether (CAS 112-34-5)<br>rediamine tetraacetate (CAS    | Listed.<br>Listed.                                   |                     |
| US. Massachusetts RT                         | K - Substance List  |  |                     |
| Not regulated.<br>US. Pennsylvania RTK       | - Hazardous Substances  |  |                     |
| Diethylene glycol mo<br>US. Rhode Island RTK | pnobutyl ether (CAS 112-34-5)                                   | Listed.  |                     |
| Diethylene glycol mo                         | phobutyl ether (CAS 112-34-5)                                   | Listed.  |                     |
|  | Inventory name  |  |                     |

Country(s) or regionInventory nameUnited States & Puerto RicoToxic Substances Control Act (TSCA) Inventory

On inventory (yes/no)\* Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

|                         | 16. Other Information   |  |
|-------------------------|---|--|
| LEGEND                  | HEALTH / 3  |  |
| Severe 4                | FLAMMABILITY 1 3 1  |  |
| Serious 3<br>Moderate 2 | PHYSICAL HAZARD 1   |  |
| Slight 1<br>Minimal 0   | PERSONAL X  |  |
| Disclaimer              | Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. |  |
| Issue date              | 29-September-2015   |  |
| Further information     | For an updated SDS, please contact the supplier/manufacturer listed on the first page of the<br>document.   |  |
| Other information       | This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication<br>Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of<br>Chemicals (GHS).   |  |
| Prepared by             | Nu-Calgon Technical Service Phone: (314) 469-7000   |  |



# MATERIAL SAFETY DATA SHEET

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION CHEMTREC Company Name Phone Number (314) 469-7000 / (800) 554-5499 (800) 424-9300 Nu-Calgon Wholesaler, Inc. Street Address City State Postal Code Last Update MO 63146-4151 11/22/06 2008 Altom Court St. Louis **Product Number Product Use** Product Name EPA Registration # Foaming Evaporator Coil Cleaner & 1839-83-65516 Evap-Fresh Evaporator Cleaner & Disinfectant 4166-08 Disinfectant

#### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Ingredients   | <u>% By Wt.</u> | <u>CAS Nnmber</u> | TLV      | PEL      |
|---|-----------------|-------------------|----------|----------|
| Alkyl dimethyl benzyl ammonium chloride (C12-<br>18)            | 0.105           | 68391-01-5        | No Data. | No Data. |
| Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride | 0.105           | 85409-23-0        | No Data. | No Data. |
|   |                 |                   |          |          |

#### **SECTION 3 – HAZARD IDENTIFICATION**

Emergency Overview: Clear liquid, May cause irritation to eyes and skin.

#### Potential Health Effects

Eyes: This product may cause irritation to the eyes.

Skin: This product may cause irritation to the skin.

Ingestion: Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

Inhalation: Exposure via inhalation not likely. High vapor or aerosol concentrations may be irritating to the nose, throat and upper respiratory tract.

Chronic Exposure: No Data.

Carcinogenicity: Not listed as a carcinogenic according to IARC, NTP or OSHA.

Medical Conditions Aggravated be Exposure: No Data.

#### SECTION 4 – FIRST AID MEASURES

Eyes: immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at onee.

Skin: For skin contact flush with large amounts of water. Immediately take off all contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before reuse.

<u>Ingestion</u>: If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. if vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Note to Physician: If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriatly.

Inhalation: If symptoms are experienced, remove source of contamination or move victim to fresh air. If not breathing, give artifical respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. If symptoms persist, get medical attention.

#### SECTION 5 – FIREFIGHTING MEASURES

Flash Point: >201°F

Autoignition Temp: No Data°C/No Data°F

Hazardous Products of Combustion: May form carbon monoxide.

Flammable Limits in Air: No data

Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog.

Fire and Explosion Hazards: No Data.

Special Firefighting Procedures: Firefighters should wear full fire-fighting turn-out gear(full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spill or Leak: Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch or walkthrough spilled material. Wear appropriate personal protective equipment during cleanup. Small Spills: Absorb or eover with dry earth, sand or other non-combustible material & transfer to containers for later disposal. Large Spills: Dike ahead of liquid spill for later disposal. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of the National Pollntant Discharge Elimination System(NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

#### SECTION 7 - HANDLING AND STORAGE

Handling Procedures and Equipment: Avoid contact with skin, eyes & clothing. Avoid breathing mists or vapors of this product. Wash hands thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Storage Requirements: Store in dry, well-ventilated area. Avoid freezing or excessive heat. DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

#### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Under normal conditions, respirator is not normally required. If vapors arc present or irritation is experienced, NIOSH approved respiratory protection for ammoniaeal vapors should be worn.

Eye Protection: Wear safety glasses with side shields.

Protective Clothing: Use impervious gloves. Wear suitable protective clothing.

Exposure Guidelines: No Data.

Specific Engineering Controls (such as ventilation, enclosed process): Use with adequate ventilation. Eye wash fountain and emergency showers are recommended.

Diethylene glycol monobutyl ether 112-34-5

NIOSH - Health Standards - Exposure Limits reduce exposure to lowest feasible concentration.

#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| Physical Form: Liquid      | Freezing Point: >0°C/>32°F               | <u>% Volatile by Weight</u> : No Data.%     |
|----------------------------|--|---|
| Color: Clear               | <u>Vapor Density [air =1]</u> : No Data. | Evaporation Rate: No Data.                  |
| Odor: No Data.             | <u>Vapor Pressure</u> : No Data.         | Speeific Gravity: (1.007 g/ml), 8.38 lb/gal |
| Boiling Point: 100°C/212°F | Soluhility in Water: complete            | <u>pH (concentrate)</u> : 11.7              |

#### SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong acids, alkalies and oxidizing agents.

Reactive Conditions to avoid: Avoid strong oxidizing agents.

Decomposition Products: Upon decomposition, this product may yield oxides of nitrogen and ammonia.

#### SECTION 11 – TOXICOLOGICAL INFORMATION

| <u>Ilazardons Ingredients</u>     | <u>CAS #</u> | EINECS # | LD 50 of Ingredient<br>(Specify Species)                                      | LC50 of Ingredient<br>(Specify Species) |
|-----------------------------------|--------------|----------|---|---|
| Diethylene glycol monobutyl ether | 112-34-5     |          | Oral Rat: 5660 mg/kg; Oral<br>Mouse: 2400 mg/kg; Dermal<br>Rabbit: 2700 mg/kg |   |
|                                   |              |          |   |   |
|                                   |              |          |   |   |

#### SECTION 12 – ECOLOGICAL INFORMATION

| <u>Hazardous Ingredients</u>               | Aquatic Toxicity Data  |
|--|--|
| Toxic to fish. Toxic to aquatic organisms. | Information available upon request. Please contact Nu-Calgon Wholesaler Inc. |
|  |  |
|  |  |

#### SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Container Disposal: Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authoritics, by burning. If burned, stay out of smoke. For containers 1 gallon or less: Do not reuseempty container (bottle, can, bueket). Wrap container and put in trash.

Pesticide Disposal: Pesticide wastes are aeutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. if these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### SECTION 14 – TRANSPORTATION INFORMATION

| Special Shipping Information: Not Regulated by DOT. |                      |                  |               |              |  |
|---|----------------------|------------------|---------------|--------------|--|
| <u>Pnrview</u>                                      | Proper Shipping Name | <u>UN Number</u> | Packing Group | Hazard Class |  |
| DOT<br>(Land)                                       | No Data.             | No Data.         | No Data.      | No Data.     |  |
| IMO<br>(Water)                                      | No Data.             | No Data.         | No Data.      | No Data.     |  |
| ICAO<br>(Air)                                       | No Data.             | No Data.         | No Data.      | No Data.     |  |

#### SECTION 15 - REGULATORY INFORMATION

| SECTION 15 - REDULATORI INFORMATION  |   |  |  |  |
|--|---|--|--|--|
| WHMIS Classification: (Workplace<br>Hazardous Material Information System)     | Not regulated by WHMIS.   |  |  |  |
| SARA Title III: (Superfund Amendments &<br>Reauthorization Act)                | This product may contain the following ingredients known to the State of California to cause cancer, birth defects or other reproductive harm: Nitrilotriacetic acid (NTA) (CAS RN: 139-13-9)Ethylene Oxidc (CAS RN: 75-21-8) |  |  |  |
| <b>OSIIA:</b> (Occupational Safety & Health<br>Administration)                 | No Data.  |  |  |  |
| TSCA: (Toxic Substance Control Act)  | This product is considered a pesticide, and is therefore excluded from US TSCA Regulations.   |  |  |  |
| VOC: (volatile Organic Compounds)  | No Data.  |  |  |  |
| CPR: (Canadian Controlled Products<br>Regulations)                             | This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.   |  |  |  |
| EINECS: (European Inventory of Existing<br>Commercial Chemical Substances)     | No Data.  |  |  |  |
| DSL / NDSL: (Canadian Domestic Substance<br>List)(Non-Domestic Substance List) | No Data.  |  |  |  |
| CERCLA: (Comprehensive Response<br>Compensation & Liability Act)               | No Data.  |  |  |  |
| IDL: (Canadian Ingredient Disclosure List)                                     | No Data.  |  |  |  |
| NFPA (HMIS) Rating: (Hazardous Materials<br>Identification System)             | Health: 1 Flammability: 1 Reactivity:0  |  |  |  |
| SECTION 16 - OTHER INFORMATION   |   |  |  |  |

No Data.

The information contained hercin is based on the data available to us and is believed to be correct. However, Nu-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described herin.