



SECTION 1: Identification

Product identifier: Micro-Pure Detergent 1

Other means of identification: Neutral Detergent

SDS number: 260

Recommended use: Laundry Detergent

Recommended restrictions: Not for personal care

Manufacturer/Importer/Supplier/Distributor information

Company name: U.N.X. Incorporated
Address: 707 Arlington Blvd
Greenville, NC 27858
Telephone: Office hour (Mon-Fri)
8:00a.m. – 4:00p.m. (Eastern Time)
OFFICE NUMBER: 252-756-8616
Contact Person Jamie Singleton
E-mail: Jamie@unxinc.com
Emergency phone number: CHEMTEL (800) 255-3924 (24 HOURS)

SECTION 2: Hazard(s) identification

Classification of the substance or mixture:

Physical hazards Not classified

Health hazards

Acute toxicity: Category 4
Skin corrosion/irritation: Category 3
Serious eye damage/eye irritation: Category 3

Label elements:



Signal word: Warning

Hazard statements

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H401 Toxic to aquatic life.

SECTION 2: Hazard(s) identification (continued)

Precautionary statements

Prevention

| | |
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| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P261 | Avoid breathing dust/fumes/gas/mist/vapours/spray. |
| P264 | Wash hands, arms, face and exposed skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this products. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

Response:

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|----------------|--|
| P301+312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P302+352 | IF ON SKIN: Wash with plenty of water for at least 15 minutes. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |

Storage:

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| P405 | Store locked up. |
|------|------------------|

Disposal:

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| P501 | Dispose of contents/container in accordance with local/ regional/ national/ international Regulations. |
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Hazard(s) not otherwise

Classified (HNOC) Not classified

SECTION 3: Composition/information on ingredients

Substance/Mixtures

| Chemical name | CAS Number | Concentration (%) | Hazardous | Chemical Characterization |
|-----------------------------------|------------|-------------------|-----------|---------------------------|
| Water | 7732-18-5 | 40-70 | No | Substance |
| Alcohols, C12-16, ethoxylated | 68551-12-2 | 10-35 | Yes | Substance |
| Diethylene glycol monobutyl ether | 112-34-5 | 0-15 | Yes | Substance |
| Monoethanolamine | 141-43-5 | 0-5 | Yes | Substance |

SECTION 4: First-Aid Measures

Description of first aid measures

General advice: Remove victims from the danger zone without endangering your own safety. Remove contaminated clothing (including underwear and shoes) immediately.

Inhalation: Bring accident victims out into the fresh air. If patient has difficulty breathing, administer oxygen, keep the patient calm and warm. In case of unconsciousness place patient stably in side position for transportation. Call a physician immediately.

Skin contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. After contact with small amounts get medical attention if any discomfort or irritation continues. For large amounts, obtain medical attention.

Eye contact: Immediately flush eyes with gentle but large stream of water or eye wash solution for at least 15 minutes, lifting lower and upper eyelids occasionally. If possible remove any contact lenses and continue to wash. Call a physician, immediately.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. DO NOT induce vomiting, medical advice is required. Call a physician, immediately.

Most important symptoms/effects, acute and delayed:

Notes to physician: The severity of the symptoms described will vary dependant on the concentration and the length of exposure.

Inhalation: Irritation of nose, throat and airway.

Ingestion: May cause nausea and/or vomiting. Irritation of the mouth, throat, esophagus and gastrointestinal tract.

Skin contact/Skin irritation: Redness or rash may occur.

Eye contact: Causes irritation and burns of the eyes. Possible corneal damage. May cause conjunctivitis Lachrymation.

Indication of immediate medical attention and special treatment needed, if necessary:

Cases of eye contact and ingestion should be treated immediately. Have facilities in place to wash skin and eyes in case of exposure.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: This product is not flammable. In case of fire use carbon dioxide (CO₂), foam, extinguishing powder. In cases of larger fires, water spray should be used. Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire-exposed containers cool. If water is used, use in abundance to control heat.

Unsuitable extinguishing media: Do not use water jet as this can spread the fire. Do not use carbon dioxide in enclosed spaces with insufficient ventilation.

Specific hazards arising from the chemical: No unusual fire or explosion hazards noted. Product containers can melt in the heat of a fire. Packaging materials will be combustible and provide fuel for the fire. In the event of fire and/or explosion do not breathe fumes.

SECTION 5: Fire-fighting measures (continued)

Special protective equipment and precautions for fire-fighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. During fire-fighting respirator with independent air-supply and airtight garment is required. Fight fire in early stages if safe to do so. Containers at risk of fire should be cooled with water and, if possible removed from the danger area. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate area of leak or spill. Ensure adequate ventilation/exhaust extraction. Put on protective equipment (see Section 8). Have emergency procedures in place for treating spillages, evacuating the area and informing the emergency services if necessary. Restrict access to the area until the spillage is treated, if large amounts of vapors are produced that will be hazardous to others, evacuate the area. When any other effects of spillages will affect the safety of others the area should be evacuated. Avoid ingestion, inhalation of vapors and contact with skin and eyes. Non-emergency personnel should be kept away from the area of spillage.

Environment precautions: Do not flush into surface water or sanitary sewers system. Avoid unauthorized discharge to the environment. Clean up any spillages immediately; prevent material from spreading and entering drains or sewage systems. Large spillages or uncontrolled discharge to water systems must be alerted to the Environmental Agency or other regulatory body. If spillages to land cannot be treated safely or if contamination will occur the Environment Agency must be alerted immediately. If the product has entered a foul drain or sewage system in significant amounts to cause a hazard then the local water treatment company must be informed.

Methods and materials for containment and cleaning up: Contain and recover liquid when possible. Small spillages should be absorbed with an inert, non-combustible absorbent. Large Spillages: Dam and absorb spillages with sand, earth or other inert material. Small quantities (< 2 gallons) can be flushed to drain with lots of water. Fit drain covers where they are available if the spillage is likely to enter the drainage system. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labeled with correct contents and hazard symbol. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Ventilate area and allow drying before allowing access. Wash thoroughly after dealing with a spillage.

Reference to other sections: Refer to sections 8 and 13 for additional information.

SECTION 7: Handling and Storage

Precautions for safe handling: Keep in a tightly closed container and protect from physical damage. Store in a cool, dry, and ventilated area. Keep away from sources of heat, moisture, incompatibilities, and away from direct sunlight. Avoid spilling the product. Do not wash out container and use it for other purposes. Avoid ingestion of the product, inhalation of any vapors/mists when produced and contact with skin and eyes. Do not eat, drink or smoke when handling. Wash at the end of each work shift, before eating, drinking, smoking and using the toilet. Do not mix with incompatible substances or mixtures.

SECTION 7: Handling and Storage (continued)

Remove contaminated clothing/footwear/equipment before entering eating areas or places that would expose others to the product. Do not use in areas close to drainage systems unless measures are in place to prevent access of product. Ensure emergency procedures are in place to treat spillages and cope with other situations such as evacuation. Provide eye washing and skin washing facilities, when handling large amounts a safety shower is recommended. Observe all warnings and precautions listed for the product.

Conditions for safe storage, including any incompatibilities: Store in closed original container at temperatures between 40°F and 80°F. If the product is transferred to another container, this should be made of a compatible material to the original container. Store away from heat, direct sunlight and moisture. Store in a stable situation to avoid spillages. It is advisable to store in a bunded area or use other protective measures such as a sump pallet or storage tray.

SECTION 8: Exposure control/personal protection

Control Parameters

Occupational exposure limits

US.OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Chemical Name | CAS-No. | Type | ppm | mg/m ³ |
|-----------------------------------|----------|--------------|--------|--------------------|
| Diethylene glycol monobutyl ether | 112-34-5 | DOW IHG/ TWA | 35 ppm | |
| Monoethanolamine | 141-43-5 | PEL | 3 ppm | 6mg/m ³ |

U.S. ACGIH Threshold Limit Values

| Chemical Name | CAS-No. | Type | ppm | mg/m ³ |
|-----------------------------------|----------|------|--------|-------------------|
| Diethylene glycol monobutyl ether | 112-34-5 | TWA | 10 ppm | |
| Monoethanolamine | 141-43-5 | TWA | 3 ppm | |
| | | STEL | 6ppm | |

Appropriate engineering controls:

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the defined exposure limit requirements or guidelines. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition for details.

Individual protection measures, such as personal protective equipment (PPE)

Eye Protection: Use chemical safety goggles and / or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hand protection: Wear protective gloves. Butyl rubber, rubber (natural, latex), nitrile, polyvinyl chloride (PVC). Be aware that latex gloves can produce an allergic reaction in sensitive individuals. Gloves should have a breakthrough time sufficient for the amount of handling but allow dexterity for safe movement and handling. The most suitable glove must be chosen in consultation with the gloves

SECTION 8: Exposure control/personal protection (continued)

supplier, who can inform about the breakthrough time of the glove material. Gloves showing signs of degradation should be changed to avoid skin contamination. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. When removing used gloves apply proper technique by avoiding skin contact with the outer surface. When packages of the product are being handled during storage or transport it is advisable to wear protective gloves to prevent damage to the skin.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded, a full face piece respirator with high efficiency dust/mist filter may be worn up to 50 times the exposure limit. Wear suitable respiratory protection when vapors or mists are produced if the Workplace Exposure Limit is exceeded and there is insufficient ventilation or extraction. For emergencies or instances where the exposure levels are not known, use a full face piece positive-pressure, air-supplied respirator. Respirator must be fitted with a cartridge suitable for the chemical of concern. Consult with the supplier as to the compatibility of the equipment with the chemical of concern. CAUTION: Air purifying respirators do not protect the user in oxygen deficient atmospheres, use air supplied system.

Thermal Hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: Wash hands, change out of clothes as soon as possible. Wash Clothes. Shower or bathe as soon as possible.

Other protective measures: Have an eye bath and safety shower close by.

SECTION 9: Physical and chemical properties

| | |
|--|-------------------------|
| Appearance: | Liquid |
| Colour: | Light amber liquid |
| Odour: | Citrus fragrance |
| Odour Threshold: | No data available |
| pH: | 8 ± 0.5 |
| Melting point/range: | No data available |
| Boiling point/range: | No data available |
| Flash point: | No data available |
| Evaporation rate: | No data available |
| Flammability (solid, gas): | No data available |
| Upper/lower flammability of explosive limits: | No data available |
| Vapour pressure (mm Hg): | No data available |
| Vapour density (Air=1): | No data available |
| Relative density: | No data available |
| Solubility(ies): | Excellent in warm water |
| Partition coefficient (n-octanol/water): | No data available |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Viscosity, dynamic: | 75 |

Other Information: This product contains no phosphates.

SECTION 10: Stability and Reactivity

Reactivity and/or chemical stability: No specific reactivity hazards associated with this product. Product is very stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Avoid heat, direct sunlight, and moisture. Avoid storage with incompatible materials. Avoid storage in freezing conditions. Avoid storage near to unprotected drainage systems. It is advisable to store the product within some form of containment to prevent spillages reaching drainage systems. Do not allow the storage container to be left exposed to the atmosphere. Avoid storage in an unstable manner or in a situation that would result in exposure to the product.

Incompatible materials:

-Strong oxidizers -Strong acids -Strong bases

Hazardous decomposition products: Mild decomposition can result giving off hydrogen.

SECTION 11: Toxicological information

Acute toxicity: Toxicological testing has not been conducted with this material. The toxicology information listed below is based on the components of this material.

Category 4- Oral: Harmful if swallowed.
Dermal: Harmful in contact with skin.
Inhalation: Harmful if inhaled.

| Diethylene glycol monobutyl ether | | |
|--|--|---|
| Acute Toxicity (Oral LD50) 2,410 mg/kg Mouse US EPA Guidelines | Acute Toxicity (Oral LD50) 3,305 mg/kg Mouse US EPA Guidelines | Acute Toxicity (Dermal LD50) 2,764 mg/kg Rabbit US EPA Guidelines |

| Alcohols, C12-16, ethoxylated | | |
|--|---|---|
| Acute Toxicity (Oral LD50) 1,700 mg/kg Rat US EPA Guidelines | Acute Toxicity (Dermal LD50) 1700 mg/kg Mouse US EPA Guidelines | Acute Toxicity (Inhalation: Dust and Mist) 1.5 to 20.7 mg/kg – 4 hours Rabbit US EPA Guidelines |

Skin corrosion/ irritation: Category 2: Causes skin irritation. Not known to be corrosive.

Serious eye damage/irritation: Category 2A: Causes serious eye irritation.

Respiratory or skin sensitization: No information available.

Germ cell mutagenicity: Classification not possible.

Carcinogenicity: Classification not possible.

Reproductive toxicity: Classification not possible.

SECTION 11: Toxicological information (continued)

Specific Target Organ Toxicity - Single Exposure: Classification not possible.

Specific Target Organ Toxicity - Repeated Exposure: Classification not possible.

Aspiration hazard: Classification not possible.

Information on the likely routes of exposure

General information: Effects will be dependent upon the concentration and length of time of exposure. Higher concentrations will produce more pronounced effects.

Inhalation: Vapors or mists may irritate the nose, throat and respiratory tract. May cause coughing and difficulties with breathing.

Ingestion: Irritation of the mouth, the esophagus and the gastrointestinal tract. Stomach pain and vomiting may occur.

Skin contact: May cause irritations of the skin.

Eye contact: Causes irritation of the eyes. May cause corneal damage and lacrimation. Conjunctivitis may develop. Risk of serious damage to eyes.

SECTION 12: Ecological information

Toxicity: Do not allow to escape into waterways, wastewater or soil. Ecotoxicological studies of the product are not available. Please find below the data available to us from raw materials:

Aquatic ecotoxicity

Acute: Category 2: Toxic to aquatic life.

| Alcohols, C12-16, ethoxylated EU Tested according to directive 92/69/EEC | | |
|--|--|---|
| Acute EC50 (Daphnia) 48 hrs 1.2 to 2.7 mg/L Fresh Water | Acute ErC50 (Algae) 72 hrs growth rate 0.64 to 1.3 mg/L | Acute LC50 (Fish) 96 hrs 2.6 to 2.9 mg/L |

| Diethylene glycol monobutyl ether | | |
|--|--|---|
| Acute Toxicity (Oral LD50) 2,410 mg/kg Mouse US EPA Guidelines | Acute Toxicity (Oral LD50) 3,305 mg/kg Mouse US EPA Guidelines | Acute Toxicity (Dermal LD50) 2,764 mg/kg Rabbit US EPA Guidelines |

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: No data available for this product.

Mobility in soil: 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.

SECTION 13: Disposal considerations

General information

Do not allow unauthorized disposal to the environment. If operators are exposed to vapors during the disposal process then suitable respiratory protection should be worn. All other personal protective equipment as described in section 8 should be worn.

Disposal methods:

Avoid unauthorized disposal. Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with federal, state/provincial and local laws and regulations. For a small spill, immediately hose down with cool water and dispose to drain. For a large spill, dike, collect and contact local authorities about disposal.

SECTION 14: Transport Information

| | |
|-------------------------------|--------------------|
| UN Number: | Not Available |
| UN Proper Shipping Name: | Not Applicable |
| Transport hazard class(es): | |
| DOT Hazard Class: | Not Available |
| DOT Subsidiary Hazard Class: | Not Available |
| Packing group, if available: | Not Available |
| Environmental Hazards: | No |
| Special precautions for user: | Not DOT regulated. |

Transport in bulk according to Annex II of MARPOL 73/78³ and the IBC Code ³: Not applicable

SECTION 15: Regulatory Information

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

Unless otherwise noted, no components are SARA TITLE 3 SECTION 313 40 CFR listed materials. The ingredients of this product are listed on the TSCA inventory. This product is not made with VOC'S that could cause damage to the ozone layer.

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substance List and/or Pennsylvania Environmental Hazardous Substance List:

The following product components are cited in the Pennsylvania Hazardous Substance List and/or Pennsylvania Environmental Hazardous Substance List.

| Component | CAS No. | Amount |
|-----------------------------------|----------|--------|
| Diethylene glycol monobutyl ether | 112-34-5 | 0-5 |
| Monoethanolamine | 141-43-5 | 0-5 |

SECTION 15: Regulatory Information (continued)

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substance List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

SECTION 16: Other Information including date of preparation or last revision

Chemical State: Liquid
Chemical Type: Mixture

Issue Date: 7-1-2014
Revision Date: -
Version #: 01

| | |
|---|---------------------|
| 1 | Health |
| 1 | Flammability |
| 1 | Physical Hazard |
| B | Personal Protection |

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