

#### Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

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Distributor

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Amrak Healthcare Canada, Inc.

#### **SECTION 1: Identification**

1.1. Product identifier

Product form : Mixture

Product name : Micro-Scientific Enzyclean IV Multiple Enzyme Detergent

Product code : 128EMEHC

1.2. Recommended use and restrictions on use

Recommended use : Detergent

1.3. Supplier

Manufacturer
Micro-Scientific, LLC

755 Tri-State Parkway Gurnee, IL 60031

T 1-888-253-2536

1.4. Emergency telephone number

Emergency number : 1-800-535-5053; International: 1-352-323-3500

#### **SECTION 2: Hazard identification**

#### 2.1. Classification of the substance or mixture

#### Classification (GHS CA)

Resp. Sens. 1 H334

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS-CA labelling**

Hazard pictograms (GHS-CA)



Signal word (GHS CA) : Danger

Hazard statements (GHS-CA) : H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements (GHS-CA) : P261 - Avoid breathing mist/vapours/spray.

P284 - In case of inadequate ventilation, wear respiratory protection.

P304+P340 - IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international

regulation

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS CA)

Not applicable

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                              | Product identifier  | %     |
|-----------------------------------|---------------------|-------|
| Subtilisins (proteolytic enzymes) | (CAS-No.) 9014-01-1 | 0.1-1 |
| Lipase, triacylglycerol           | (CAS-No.) 9001-62-1 | 0.1-1 |
| Amylase, .alpha                   | (CAS-No.) 9000-90-2 | 0.1-1 |

<sup>\*</sup>Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing

respiratory symptoms: Call a POISON CENTER/doctor.

First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation

persists.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause irritation to the respiratory tract. May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Symptoms/effects after skin contact: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

production, with possible redness and swelling.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and

liarrhea

#### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

#### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : None known.

#### 5.3. Specific hazards arising from the hazardous product

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

#### 5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to

unnecessary and unprotected personnel.

#### 6.2. Methods and materials for containment and cleaning up

For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material),

then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not

swallow. Handle and open container with care. Use only outdoors or in a well-ventilated area. When using do not eat, drink or smoke. Provide adequate ventilation

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a well-ventilated place.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

| Subtilisins (proteolytic enzymes) (9014-01-1) |                       |                             |
|---|-----------------------|-----------------------------|
| USA - ACGIH                                   | ACGIH Ceiling (mg/m³) | 0.00006 mg/m³ (Subtilisins) |
| USA - ACGIH                                   | Regulatory reference  | ACGIH 2017                  |

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#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

recommended exposure limits.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Wear chemically resistant protective gloves.

#### Eye protection:

Safety glasses or goggles are recommended when using product.

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Wear respiratory protection.

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Blue liquid.
Colour : Blue
Odour : Fresh

Odour threshold : No data available

pH : 8.5 - 9

Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : No data available Melting point No data available : No data available Freezing point Boiling point : No data available : No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) Not Flammable No data available Vapour pressure Vapour pressure at 50 °C No data available

Relative density : 1.11

Solubility : No data available
Partition coefficient n-octanol/water : No data available
Viscosity, kinematic : No data available
Explosive limits : No data available

#### 9.2. Other information

No additional information available

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity : No dangerous reactions known under normal conditions of use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.

Conditions to avoid : Incompatible materials
Incompatible materials : Strong acids, Strong bases

Hazardous decomposition products : May include, and are not limited to: oxides of carbon.

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| SECTION ' | 11: Toxicol | logical in | formation  |
|-----------|-------------|------------|------------|
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Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

| Amylase, .alpha (9000-90-2) |                |
|-----------------------------|----------------|
| LD50 oral rat               | > 7500 mg/kg   |
| LC50 inhalation rat         | > 4.96 mg/l/4h |

| Subtilisins (proteolytic enzymes) (9014-01-1) |                      |
|---|----------------------|
| LD50 oral rat                                 | 3700 mg/kg           |
| LD50 oral                                     | 370 mg/kg            |
| ATE CA (oral)                                 | 370 mg/kg bodyweight |
| THE OTT (oral)                                | oro mg/kg bodywoight |

Skin corrosion/irritation : Not classified.

pH: 8.5 - 9

Serious eye damage/irritation : Not classified.

pH: 8.5 - 9

Respiratory or skin sensitization : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity : Not classified.
Carcinogenicity : Not classified.
Reproductive toxicity : Not classified.
STOT-single exposure : Not classified.
STOT-repeated exposure : Not classified.
Aspiration hazard : Not classified.

Symptoms/effects after inhalation : May cause irritation to the respiratory tract. May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

production, with possible redness and swelling.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

| Subtilisins (proteolytic enzymes) (9014-01-1) |             |          |
|---|-------------|----------|
|   | LC50 fish 1 | 200 mg/l |

#### 12.2. Persistence and degradability

| Micro-Scientific Enzyclean IV Multiple Enzyme Detergent |                  |
|---|------------------|
| Persistence and degradability                           | Not established. |

#### 12.3. Bioaccumulative potential

| Micro-Scientific Enzyclean IV Multiple Enzyme Detergent |                  |
|---|------------------|
| Bioaccumulative potential                               | Not established. |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Ozone : Not classified.
Other information : No other effects known.

#### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

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#### **SECTION 14: Transport information**

#### 14.1. Basic shipping description

In accordance with TDG

#### **Transportation of Dangerous Goods**

Not regulated for transport

#### 14.2. Transport information/DOT

No additional information available

#### 14.3. Air and sea transport

No additional information available

### **SECTION 15: Regulatory information**

#### 15.1. National regulations

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

#### 15.2. International regulations

No additional information available

#### **SECTION 16: Other information**

Date of issue : 07-19-2019
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Other information : None.

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