

Safety Data Sheet

Section 01 - Identification

Product Identifier B220RED Enzymes

Other Means of Identification Viable bacterial culture, bacterial products

Product Use and Restrictions on

Use

Used for softening and degrading food type fat, oil and grease in lift stations and lagoons

Initial Supplier Identifier ClearTech Industries Inc.

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Section 02 - Hazard Identification

GHS-Classification

This product has been assessed in accordance with the Hazardous Products Regulations and is not classified as a hazardous substance or mixture.

Section 03 - Composition / Information on Ingredients

Chemical Name CAS Number Weight % Unique Identifiers

*Nater and/or ingredients not 100%

Water and/or ingredients not classified as hazardous under the Hazardous Products Regulations

Section 04 - First Aid Measures

Inhalation Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If

breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact / Absorption Remove contaminated clothing. Wash affected area with soap and water. Seek medical

attention if irritation occurs or persists.

Eye ContactContact lenses should never be worn when working with this product. Flush immediately

with water for at least 30 minutes. Forcibly hold eyelids apart to ensure complete irrigation

of eye tissue. If irritation persists, seek medical attention.

Ingestion Do not induce vomiting. Drink water or milk. Seek medical attention.

Additional Information Call physician if symptoms persist.

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media Use water spray extinguisher

Unsuitable Extinguishing Media Not Available

Specific Hazards Arising From the Not Available

Chemical

Precautions for Fire-Fighters

Special Protective Equipment and Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Not Available **Further Information**

Section 06 - Accidental Release Measures

Personal Precautions / Protective

Equipment / Emergency Procedures

Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Prevent material from entering sewers. Flush

with water to remove any residue.

Environmental Precautions Prevent material from entering sewers.

Methods and Materials for **Containment and Cleaning Up** Stop or reduce leak if safe to do so. Flush with water to remove any residue.

Section 07 - Handling and Storage

Use proper equipment for lifting and transporting all containers. Use sensible industrial **Precautions for Safe Handling**

hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations

that could lead to harmful exposure.

Conditions for Safe Storage Store in a cool dry place with a temperature between 5-40°C. Do not freeze. Ensure

packaged containers remain sealed.

Incompatibilities Acids or alkaline products may inactivate biological cultures.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component Regulation Type of Listing Value **B220RED Enzymes ACGIH** Not Available Not Available

Engineering Control(s)

Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and **Ventilation Requirements**

> control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by

exhaust systems.

Emergency shower and eyewash must be available and tested in accordance with Other

regulations and be in close proximity.

Protective Equipment

Chemical safety glasses with side shields should be worn while product is being handled. Eyes/Face

Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all **Hand Protection**

times. Wash contaminated clothing and dry thoroughly before reuse.

Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all **Skin and Body Protection**

times. Wash contaminated clothing and dry thoroughly before reuse.

Impervious boots of chemically resistant material should be worn at all times. No special

footwear is required other than what is mandated at place of work.

Respiratory Protection Respiratory protection is not normally required. If use creates dust formations, then a

NIOSH approved respirator with a dust cartridge is recommended.

Thermal Hazards Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State Free-flowing granular powder

Colour Red/brown

Odour Yeast like odor

Odour Threshold Not Available

Property

pH 6.0-7.0 when mixed with water

Melting Point/Freezing Point Not Available

Initial Boiling Point and Boiling

Range

Not Available

Flash Point Not Applicable

Evaporation Rate Not Available

Flammability Non-Flammable

Upper Flammable Limit Not Available

Lower Flammable Limit Not Available

Vapour Pressure (mm Hg, 20°C) Not Available

Vapour Density (Air=1) Not Available

Relative Density 0.6-0.8 g/cm³

Solubility(ies) Moderate, disperses in water

Partition Coefficient: n-

octanol/water

Not Available

Auto-ignition Temperature Not Available

Decomposition Temperature Not Available

Viscosity Not Available

Explosive Properties Not Available

Specific Gravity (Water=1) Not Available

% Volatiles by Volume Not Available

Formula Not Available

Molecular Weight Not Available

Section 10 - Stability and Reactivity

Reactivity Not Available

Stability Product is stable

Possibility of Hazardous

Reactions

Brief contact between sodium nitrate and combustible materials (e.g. oily rags, oil, grease, paper, and wood) will not result in ignition of the combustible material. However, following prolonged contact, the reaction may produce enough heat to ignite the combustible material.

Conditions to Avoid Not Available

Incompatible Materials Acids or alkaline products may inactivate biological cultures.

Hazardous Decomposition

Products

Oxides of carbon

Section 11 - Toxicological Information

Acute Toxicity

ComponentOral LD_{50} Dermal LD_{50} Inhalation LC_{50} B220RED EnzymesNot AvailableNot AvailableNot Available

Chronic Toxicity – Carcinogenicity

Component IARC

B220RED Enzymes

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

Skin Corrosion/Irritation Mild irritant

Ingestion Considered non-toxic but may cause nausea or diarrhea.

Inhalation May cause irritation if dust is inhaled.

Serious Eye Damage/Irritation Mild irritant

Respiratory or Skin Sensitization Not Available

Germ Cell Mutagenicity May be a mutagenic hazard at very high level doses according to animal tests.

Reproductive Toxicity May be a reproductive hazard at very high level doses according to animal tests.

STOT-Single Exposure Not Available

STOT-Repeated Exposure The major acute toxic effect of nitrate and nitrite poisoning is methemoglobinemia which

reduces the oxygen-carrying capacity of the blood and shifts the oxyhemoglobin

dissociation curve to the left interfering with the unloading of oxygen.

Aspiration Hazard Not Available

Synergistic Materials Not Available

Section 12 – Ecological Information

Ecotoxicity

Component Toxicity to Algae Toxicity to Fish Toxicity to Daphnia and
Other Aquatic Invertebrates

B220RED Enzymes Not Available Not Available Not Available Not Available

Biodegradability Contents are biodegradable

Bioaccumulation This chemical is not likely to bioconcentrate.

Mobility Nitrates have a tendency to migrate into groundwater as they do not bind to soil and are

extremely soluble.

Other Adverse Effects Not Available

Section 13 – Disposal Considerations

Waste From Residues/Unused

Products

Dispose in accordance with all federal, provincial, and/or local regulations including the

Canadian Environmental Protection Act.

Contaminated Packaging Dispose in accordance with all federal, provincial, and/or local regulations including the

Canadian Environmental Protection Act.

Section 14 – Transport Information

UN Number Not Regulated

UN Proper Shipping Name Not Regulated

Transport Hazard Class(es) Not Regulated

Packaging Group Not Regulated

Environmental HazardsNot listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special Precautions Not Available

Transport in Bulk Not Available

TDG

Other Secure containers (full and/or empty) with suitable hold down devises during shipment and

ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 – Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 - Other Information

Preparation Date August 17, 2015

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no

guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution[®] initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

- 1) CHEMINFO
- 2) eChemPortal
- 3) TOXNET
- 4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA

ClearTech Industries Inc. - Locations

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