

1. Identification

Product name GRV MAX-ZYME
Use LOW TEMPERATURE ENZYME DETERGENT WITH OXYGEN BLEACH
Supplier Groulx Robertson-Venus
A division of GTR Chemical Solutions Inc.
190 Oneida drive, Pointe-Claire
Quebec, Canada H9R 1A8
Emergency phone number: CANUTEC (613) 996-6666

Code 10GR192P



2. Hazard identification

Product classification Serious eye damage / Eye irritation - Category 1
Skin corrosion / irritation - Category 1
Oxidizing solids - Category 3
Acute toxicity (oral) - Category 4
Signal word **DANGER**
Hazard statement H272 - May intensify fire; oxidizer.
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
Pictogram



Precautionary statement P210 - Keep away from heat / sparks / open flames / hot surfaces. No smoking.
P220 - Keep/Store away from clothing / combustible materials.
P221 - Take any precaution to avoid mixing with combustibles.
P260 - Do not breathe dust / fumes / gas / mist / vapours / spray.
P264 - Wash hands and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves / protective clothing / eye protection / face protection.
P301+P312 - **IF SWALLOWED**: Call a POISON CENTER or a doctor if you feel unwell.
P301+P330+P331 - **IF SWALLOWED**: Rinse mouth. Do NOT induce vomiting.
P304+P340 - **IF INHALED**: Remove person to fresh air and keep comfortable for breathing.
P303+P361+P353 - **IF ON SKIN (or hair)**: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P363 - Wash contaminated clothing before reuse.
P305+P351+P338 - **IF IN EYES**: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P310 - Immediately call a POISON CENTER or a doctor.
P370+P378 - In case of fire: Use alcohol-resistant foam, carbon dioxide (CO2), extinguishing powder, dry sand or limestone powder to extinguish.
P405 - Store locked up.
P501 - Dispose of contents / container according to all applicable regulations.

3. Composition / Information on ingredients

Ingredient name
Sodium metasilicate anhydrous

Cas number
6834-92-0

% (w/w)
7 - 13

4. First-aid measures

Eyes contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 30 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.
Inhalation	In case of inhalation of vapors or mists, bring the person to an airborne place. Immediately transfer to the closest emergency medical service if breathing is difficult. Symptoms of pulmonary edema may appear after a delay of several hours and are aggravated by physical effort. Rest and medical supervision are therefore essential.
Ingestion	In case of ingestion, rinse mouth. drink a glass of water. Do not induce vomiting and see a doctor. Never administer anything orally to someone unconscious or in a convulsive state.
Indication of immediate medical attention and special treatment needed	No further information available.

Most important symptoms and effects

Eyes contact	Corrosion of the eyes. Can provoke damage to the eyes that leads to blindness.
Skin contact	This product is irritating and corrosive to the skin. It causes severe burns with deep ulcerations. Irritative contact dermatitis may occur in repeated contact with this product or its solutions. Dermatitis may cause redness, itching, peeling and papules. Exposure to dust or fog can cause multiple small burns on the skin with a temporary loss of hair.
Inhalation	Inhalation immediately irritating to the respiratory tract. Swelling or spasms of the larynx leading to upper-airway obstruction and asphyxia can occur after high-dose inhalation. Inflammation of the lungs and an accumulation of fluid in the lungs may also occur.
Ingestion	Corrosion of the digestive tract with severe pain, dyspnea, vomiting, nausea, possible perforation of the esophagus and stomach . The effects can lead to death.

5. Fire-fighting measures

Suitable extinguishing media	Alcohol-resistant foam, carbon dioxide (CO ₂), extinguishing powder, dry sand or limestone powder.
Unsuitable extinguishing media	Water stream.
Specific hazards arising from the chemical	No further relevant information available.
Special protective equipment and precautions for firefighters	Wear self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear protective equipment listed in section 8. Keep unnecessary personnel and unprotected persons away. Remove any combustible material of the affected area.
Methods and materials for containment and cleaning up.	Isolate area. Keep unnecessary personnel away. Ensure adequate ventilation. Stop the flow of material, if this is without risk. Absorb with inert material such as vermiculite, sand or soil. Put in adequate container. Wash contaminated area.

7. Handling and storage

Precautions for safe handling	Put on appropriate personal protective equipment (see section 8). Use in a way to prevent splashing. Eating, drinking and smoking should be prohibited in areas where this material is handled or stored. Workers should wash hands and face before eating, drinking and smoking. Keep in the original container or an approved alternative, kept tightly closed when not in use. Do not reuse empty container.
Conditions for safe storage, including any incompatibilities	Store in a well-ventilated place, away from flammable or combustible material. Keep container tightly closed.

8. Exposure controls / Personal protection

Occupational exposure limits (by ingredients)

Ingredient name	TWAEV	STEV
Sodium metasilicate anhydrous	-	-
Sodium percarbonate	-	-

Source of data : RSST

P = ceiling value that should not be exceeded for any amount of time.

Appropriate engineering controls	Use only with ventilation adequate to keep air concentration below STEV if use generates vapor or mists. If STEV is exceeded, wear NIOSH approved respirator.
----------------------------------	---

Individual protection measures

Eyes & face	Wear chemical goggles and face shield.
Skin	Wear impervious gloves and impervious apron.
Respiratory	If airborne exposures cannot be kept below permissible exposure limits, use a NIOSH approved respiratory protection.
Other	Provide eye wash facility and safety shower near the places where the product is used. Normal work clothes (long-sleeved shirt, long pants and closed shoes) are recommended. Contact lenses should not be worn when handling this product.

9. Physical and chemical properties

Physical state	Powder	Evaporation rate	Not available	Relative density	Not available
Colour	White	Flammability	Not flammable	Solubility	Soluble in water
Odour	Citrus odor	Upper flammability limits	Not available	Partition coefficient - n-octanol/water	Not available
Odour threshold	Not available	Lower flammability limits	Not available	Auto-ignition temperature	Not available
pH	11.0 - 11.5	Upper explosive limits	Not available	Decomposition temperature	Not available
Freezing point	Not available	Lower explosive limits	Not available	Viscosity	Not available
Initial boiling point and boiling range	Not available	Vapour pressure	Not available		
Flash point	Not available	Vapour density	Not available		

10. Stability and reactivity

Reactivity	Strong exothermic reaction upon contact with alkali. Splashing and vapor eruption may occur.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Exothermic reaction upon contact with acid.
Conditions to avoid	Avoid excessive heat and humidity.
Incompatible materials	Reactive or incompatible with acid, reductive agent and sodium hypochlorite.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Potential Health Effects

Chronic Exposure	No further information available.
------------------	-----------------------------------

Acute toxicity (per ingredient)

Ingredient	Acute toxicity
Sodium metasilicate anhydrous	LD 50 Oral : 1153 mg/kg, Rat LD 50 Dermal : > 15440 mg/kg, Rabbit
Sodium percarbonate	LD 50 Oral : 2200 mg/kg, Rat

12. Ecological information

Ecotoxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.

13. Disposal considerations

Disposal methods	Dispose of contents/container in accordance with local / regional / national / international regulations.
------------------	---

14. Transport information

TDG Classification

UN Number	Shipping name	Class	Packing group
N/A	Not regulated	N/A	N/A

15. Regulatory information

WHMIS classification	Serious eye damage / Eye irritation - Category 1 Skin corrosion / irritation - Category 1 Oxidizing solids - Category 3 Acute toxicity (oral) - Category 4
Other applicable regulations	No further data available.

16. Other information

Date of issue	26/10/2018
Safety Data Sheet prepared by	GTR Chemical Solutions R&D laboratory

190 Oneida, Pointe-Claire
Québec, Canada H9R 1A8
Tel. Toll Free: 1 800-363-7760
www.solutionsgtr.ca

Notice to reader

The information provided in this Safety Data Sheet is accurate to the best of our knowledge, and information available at the date of publication. The information is only designed as a guidance for safe handling, use, transport, storage and disposal.

Use of this product should be performed with caution as there are risks and hazards for people and goods, which are detailed but are not limited in this MSDS. To reduce the risks and dangers with this product is the responsibility of the user to comply with instructions and all instructions provided in the MSDS of this product. The manufacturer, distributors and suppliers of this product are exempt from any liability for any loss or damages of any kind whatsoever resulting from the use of this product that does not comply with the instructions or to all instructions provided in this MSDS or resulting from careless use of this product.