GRANDEVO

SAFETY DATA SHEET (SDS)

1.- Identification of the substance or mixture and of the company

- Chemical trade name:	GRANDEVO
- Recommended uses:	Insecticide
- Use restrictions:	Domestic and recreational use prohibited.
- Provider Name:	Anasac South Africa (Pty.), Ltd
- Provider Address:	114, Kayburne Avenue, Randpark Ridge 2156.
- Provider Email:	Infohds@anasac.cl
- Provider phone number:	082-491-6928
- Emergency telephone number:	Poison Helpline Tel: 0861-555-777. Griffon Poison Centre Tel: 082-446-8946.
- Manufacturer information:	Pro Farm Group, Inc.

2.- Identification of the hazard or hazards

- Classification according to GHS: SERIOUS EYE INJURY/ EYE IRRITATION CATEGORY 2B, ACUTE AQUATIC HAZARD CATEGORY 2.

- GHS label:

- Warning word: WARNING

- Hazard statements:

H320: Causes eye irritation.
H402: Harmful to aquatic life.

- Precautionary advice:

P101: If medical advice is needed, have container or label at hand.
P102: Keep out of reach of children.
P103: Read the label before use.
P235: Keep in a cool place.
P264: Thoroughly wash hands and faces after handling the product.
P270: Do not eat, drink or smoke while using the product.
P271: Use only in open spaces or well-ventilated areas.
P272: Contaminated work clothing should not leave the workplace.
P273: Avoid release to the environment.
P281: Use the mandatory personal protective equipment.
P302 + P352: If it gets on the skin: wash with plenty of water.
P304 + P340: If inhaled, move the affected person to fresh air, keep him comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy. keep clarifying

P333 + P313: If there is skin irritation or rash, get medical attention.
P337 + P313: If eye irritation persists: Get medical attention.
P362 + P364: Take off contaminated clothing and wash before reuse.
P391 : Collect spillage.
P403: Store in a well-ventilated place.
P501: Dispose of containers according to national regulations.

- Other Hazards: Does not present

3.- Composition/Information on the components

- In the case of a substance: It does not correspond.

- In the case of a mixture:

	Component 1	Component 2
GHS Classification:	Not classified.	Not classified.
Common or generic name:	Chromobacterium subtsugae strain PRAA4-1	Sodium lauryl sulfate
Systematic chemical name:	Not available.	Sodium lauryl sulfate
Concentration range (%):	30% w/w	5% w/w
CAS number:	Not available.	151-21-3

4.-First aid

- Inhalation: Remove person to fresh air. If the person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment.

- Skin contact: Remove contaminated clothing. Rinse skin immediately with plenty of water for at least 15-20 minutes. Call a poison control center or doctor for treatment advice.

- Eye contact: Hold eye open and rinse slowly and gently with water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Do not use an eye ointment. Call poison control center or doctor 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 by a poison control center or physician. Do not give anything by mouth to an unconscious person.

- Most important symptoms and effects, both acute and delayed: Abdominal pain, mild eye or skin irritation.

- Protection of those providing first aid: Use gloves.

- Notes to a treating physician: Apply symptomatic treatment. Antidote: No specific antidotes are

5.- Firefighting measures

Extinguishing Agents:

Use chemical foam (to prevent vapor ignition) or dry chemical powder to extinguish flames.

Unsuitable Extinguishing Agents:

Does not apply.

Specific hazards:

The following products can be generated in combustion and thermal degradation: Carbon dioxide and monoxide.

Recommendations for firefighting personnel:

Qualified personnel must enter the affected area wearing special firefighting clothing, self-contained breathing apparatus, and safety glasses with side shields.

6.- Measures to be taken in case of spillage/accidental spill

- Personal precautions:

Do not enter affected area without proper protective equipment.

- Protective equipment:

Use equipment detailed in point 8.

- Emergency procedures:

Isolate the affected sector, people use the appropriate protection elements.

- Environmental precautions:

Contain the spill with inert substances (sand, earth).

Methods and materials for containment and cleaning up:

In case of spillage on natural soil, remove personnel, isolate the affected sector. Remove contaminated soil and transfer to a container or container for later disposal or recovery. In the event of a spill on the pavement, it is recommended to isolate the affected sector, cover the area with inert material such as sand or earth. Remove material and transfer to a container or container for later disposal. In case of spills in waters, it is recommended to catch the spilled material in a container to store water. Use activated carbon to absorb the spilled substance that has been dispersed in the water. Use suction tubes to remove spilled material. Use a suction pump for sand or sediment left under water. Finally, in all cases it is recommended to transfer to an authorized dump for this type of substance, according to what is indicated by the competent authority, another alternative is through controlled incineration in a standard oven at a temperature greater than 1000 ºC with recovery and filtering of fumes.

- Recovery:

The recovery does not correspond since the substance has been contaminated.

- Neutralization:

Isolate the affected area, if possible contain the spill with inert substances.

- Final disposition:

Dispose of as indicated by the competent authority.

Additional disaster prevention measures:

Prohibit unauthorized personnel from entering warehouses, collection or distribution sites. Store in full compliance with national regulations.

Other indications regarding discharges/spills and leaks:

Transfer the discharge/spill to a chemical waste container for disposal in accordance with current local regulations.

7.- Handling and Storage

Handling

- Precautions for safe handling:

The personnel involved in the handling of the product must use all the recommended personal protection elements.

- Contact prevention:

Do not manipulate without authorization from the security manager. The product is not flammable, however you should avoid smoking, the use of cell phones, lamps and plugs that are not explosion proof or the use of any element that could generate a spark.

Storage

- Conditions for safe storage:

Store out of direct sunlight in a cool, dry place with good ventilation. Products must be stored on shelves off the floor. Do not store together with food and medicines for animal or human use, seeds and any other that comes into direct contact with men and animals. Store only in the original container, tightly closed, at temperatures not below 5 °C and not above 25 °C.

- Technical measures:

Store in an authorized warehouse and clearly identified containers.

- Incompatible substances and mixtures:

Incompatible with oxidizing agents.

- Container/packaging material:

Always keep in the original packaging. Sealed containers, with visible label.

8.- Exposure controls/personal protection

Control parameters:

- Weighted Permissible Limit (LPP):	Not determined.
- Temporary permissible limit (TPL):	Not determined.
- Absolute permissible limit (APL):	Not determined.
- Biological tolerance limit:	Not determined.

Personal protection items:

- Respiratory protection:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- Hand protection:	Wear gloves made of Latex or other impervious material.
- Eye protection:	Wear appropriate eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations 29 CFR 1910.133 or European Standard EN 166.
- Skin and body protection:	Clothing to prevent prolonged skin contact as needed such as long-sleeved shirt, long pants and shoes with socks.

Engineering measures:

Spill controls should be provided for working with large quantities. No TLV assigned. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and aerosols below the exposure levels. Ensure that eyewash stations and safety showers are proximal to the work-station location.

9. Physical and Chemical Properties

- Physical state:	Solid
- Form in which it is presented:	Solid
- Color:	Purplish to grayish brown
- Odor:	Sweet, musty
- pH:	5 to 7 (1% solution in water)
- Melting Point/Freezing Point:	Not applicable.
- Initial boiling point and boiling range:	Not applicable.
- Flashpoint:	Not determined.
- Upper/lower flammability or explosive limits:	Not determined.
- Vapor pressure:	Not determined.
- Density:	0,4 to 0,7 g/mL
- Vapor Density:	Not applicable.
- Relative density:	Not applicable.
- Solubility(ies):	Dispersible in water
- Partition coefficient n-octanol/water:	Not applicable.
- Autoignition temperature:	Not applicable.
- Decomposition temperature:	Not applicable.
- Evaporation rate:	Not applicable.
- Viscosity:	Not applicable.
- Explosive properties:	Not determined.
- Oxidizing properties:	Not determined.
- Miscibility in water:	Not determined.
- Corrosiveness:	Not determined.

10.- Stability and reactivity

- Reactivity:	No reactivity is expected under normal storage conditions.
- Chemical stability:	Stable.
- Dangerous reactions:	It does not correspond.
- Conditions to avoid:	Reactive or highly unstable substances.
- Incompatible Materials:	None known HAZARDOUS.
- Hazardous decomposition products:	Not known to occur.

11.- Toxicological information

- Acute Oral Toxicity:	LD 50 rats: > 5000 mg/kg. Not categorized.
- Acute Dermal Toxicity:	LD 50 rats: > 5000 mg/kg. Not categorized
- Acute inhalation toxicity:	LC 50 rats: > 5,21 mg/L 4 hours. Not categorized
- Skin corrosion/irritation:	Slight irritation (rabbit); clears within 24 hours. Not categorized.
- Serious eye damage/eye irritation:	Mild irritation (rabbit); clears within 96 hours. Category 2B.
- Respiratory or skin sensitization:	Not determined. Categorization not possible.
- Reproductive Cell Mutagenicity:	The active ingredients are not mutagenic.
- Carcinogenicity:	The active ingredients are not carcinogenic.
- Reproductive toxicity:	The active ingredients are not teratogenic.

- Specific target organ toxicity – single exposure:	No adverse effects have been observed during experimental studies.
- Specific target organ toxicity - repeated exposures:	No adverse effects have been observed during experimental studies.
- Aspiration Hazard:	No aspiration hazard expected.
- Potential Routes of Exposure:	Ingestion, inhalation, skin and eye exposure.
- Symptoms related to the physical, chemical and toxicological characteristics:	Abdominal pain, mild eye or skin irritation.

12.- Ecotoxicological information

- Ecotoxicity:	Birds: Not available. Algae: Not available. Daphnias (*Daphnia magna*): 25 mg/L (48 h) EC50 Earthworms: Not available. Fish (*Oncorhynchus mykiss*): 71 mg/L (96 h) CL50 Bees (*Apis mellifera*): Oral > 100 µg/bee (48 h) LD50, Contact >100 µg/bee (48 h) LD50
- Persistence and degradability:	Not available.
- Bioaccumulative potential:	This material is not expected to bioconcentrate in organisms.
- Mobility in soil:	Not available.
- Other adverse effects:	Not available.

13.- Information regarding the elimination of the substance or mixture

- Waste:

Incineration in Standard type furnaces at a temperature of more than 1100ºC, 2" residence. Combustion and destruction efficiency: 99.9%

- Contaminated container and packaging:

Carry out triple washing of the containers, make them unusable and send them to an authorized collection center for chipping and subsequent transfer to a dump or recycling. Confine the containers in a clearly identified place, until the authority defines the final destination.

- Prohibition of discharge into wastewater:

The discharge of waste into wastewater is prohibited.

- Other special precautions:

Collect in clearly identified containers, finally transfer to an authorized deposit for this type of substance, for subsequent disposal in accordance with the provisions of the competent authority.

14.- Transportation information

	Mode of transport		
	Terrestrial	Maritime	Aerial
Regulations	RID/ADR	IMDG	IATA
UN number	Goods not classified as dangerous for transport.	Goods not classified as dangerous for transport.	Goods not classified as dangerous for transport.
Proper Shipping Name	-	-	-
Class or Division	-	-	-
Secondary hazard UN	-	-	-
Packing/container group	-	-	-
Environmental hazards	Harmful to aquatic life.	Harmful to aquatic life.	Harmful to aquatic life.
Bulk transport (MARPOL 972 73/78 - Annex II; IBC Code):	Not applicable		

15.- Regulatory information

- National regulations: Reference standard SANS 10234 and Suplement
National legislation OHSact and Regulations (85 of 1993)

- International regulations: RID, IATA, IMDG.

The receiver should pay attention to the possible existence of local regulations.

16.- Other information

- Change control: Update to GHS regulations.

- Abbreviations and acronyms:
LD50: Lethal Dose 50.
LC50: Lethal concentration 50.
EC50: Effective concentration 50.
NOEC: No Observed Effect Concentration.
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods Code

- References: Information from Pro Farm Group, Inc.

- Hazard warnings referenced: Not classified.

- Creation date: October 2026.

- Current revision date: October 2026.

- Date of the next revision: Five years from the current revision date.

- Supplier liability limit: In this act, it is stated that the information provided in this document is timely and transparent, in accordance with the requirements of national and international standards, in turn, it is established that the inappropriate use of this product, kit or substance, could generate damage to people, private property and/or the environment. It is advisable to read this document carefully and contact an expert for guidance if you require assistance. Specific training is required for handling the chemical.