

SAFETY DATA SHEET

BIOPOWER® STIMULATE®

SECTION 1: Identification of the substance and supplier

Product name: BIOPOWER® STIMULATE®
Recommended Use: Soil revitaliser and plant nutrition

Company: Grosafe Chemicals Ltd.
Address: 20 Jean Batten Drive, Mt Maunganui 3116 (P.O. Box 14450 Tauranga 3143)
Email: enquiries@Grosafechemicals.co.nz
Telephone Toll Free Number: 0800 820 002
Emergency Telephone Number: 0800 CHEMCALL (0800 243622)
(EMERGENCIES ONLY)

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SECTION 2: Hazards Identification

HSNO Hazard Classification: Based on available information, not classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

SECTION 3: Composition/information on ingredients

| <u>Ingredients</u> | <u>CAS Number</u> | <u>Content</u> |
|--|-------------------|----------------|
| Alginic acid | 9005-32-7 | 1.5% |
| 3-Indolebutyric acid | 133-32-4 | ≤0.001% |
| Salicylic acid | 69-7-27 | ≤0.1% |
| Triacontanol | 593-50-0 | ≤0.005% |
| Ingredients determined not to be hazardous, including water. | | Balance |

SECTION 4: First Aid Measures

In case of poisoning by any route contact a doctor or Poisons Information Centre.

Swallowed: Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.

Eye: Flush eyes with large quantities of water for 15 minutes. Seek medical advice.

Skin: If contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water. Consult a doctor if irritation persists.

Inhaled: Move affected person to fresh air and keep at rest until recovered.

Advice to Doctor: If poisoning is suspected apply symptomatic therapy. Contact Poisons Information Centre (0800 POISON (0800 764 766) for more information.

SECTION 5: Fire Fighting Measures

| | |
|--------------------------------|---|
| Extinguishing media: | Use appropriate fire extinguisher for surrounding environment. |
| Special exposure hazards: | Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. |
| Fire and Explosive Properties: | May form hazardous decomposition products |
| Flammability: | Non combustible material. However, following evaporation of aqueous component under fire conditions, the non-aqueous component may decompose and/or burn. As a water based product, if spilt on electrical equipment the product will cause short-circuits. |

SECTION 6: Accidental Release Measures

If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Instead of disposal, consider the environment and use to nurture all vegetables, vegetation and trees.

SECTION 7: Handling and Storage

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store with food or drink. Wash thoroughly with soap and water after handling.

SECTION 8: Exposure Control/Personal Protection

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|-----------------|---|
| Eye Protection: | Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. |
| Skin Protection | Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. |
| Ingestion: | Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material, Wash thoroughly with soap and water after handling. |

SECTION 9: Physical and Chemical Properties

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| Appearance: | liquid |
| Odour: | Seaside like odour |
| pH: | 6.5 – 8.5 |
| Boiling Point: | 100°C |
| Flammable (Explosive) Limits: | Non flammable |
| Explosive Properties: | Not explosive |

| | |
|-----------------------|-------------------------------|
| Oxidizing Properties: | Not an oxidizing agent |
| Vapour Pressure: | Not determined |
| Relative density: | 1.15 – 1.25 g/cm ³ |
| Solubility: | Completely soluble in water |

SECTION 10: Stability and Reactivity

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|-----------------------------------|---|
| Stability: | Stable under normal conditions of storage and handling |
| Conditions to avoid: | Extreme temperatures |
| Materials to avoid: | Not available |
| Hazardous Decomposition Products: | Thermal decomposition may result in the release of toxic and/or irritating fumes. |
| Hazardous Polymerisation: | Will not occur |

SECTION 11: Toxicological Information

3-Indolebutyric acid: Acute oral LD50 mouse: 100 mg/kg.
Salicylic acid: Oral, mouse: LD50 = 480 mg/kg; Oral, rabbit: LD50 = 1300 mg/kg; Oral, rat: LD50 = 891mg/kg
Triacontanol: Acute oral LD50: Female mouse 1.5g/kg, male mouse 8g/kg.

In view of the very small percentage of these active ingredients in the product the overall toxicity would not trigger any of the HSNO toxic thresholds for classification.

No adverse health effects are expected, if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE HEALTH EFFECTS:

Swallowed:

Swallowing large quantities may cause irritation, leading to pains in the stomach, nausea, vomiting and possible diarrhoea.

Eye:

May cause mild irritation to the eyes.

Skin:

May cause mild irritation to the skin.

Inhaled:

Mists from the product may cause mild irritation.

Chronic:

Prolonged exposure may cause drying and potential redness of the skin in some susceptible individuals.

SECTION 12: Environmental Information

There is no ecological information available for this product; however, large quantities should not be discharged into drains, sewers or waterways.

SECTION 13: Disposal Considerations

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to regional or local body bylaws.

SECTION 14: Transport Information

Not Scheduled as Dangerous Goods for Transport Purposes

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

SECTION 15: Regulatory Information

Not classified as Hazardous according to criteria of HSNO.

Note: The information contained herein is given in good faith, but no warranty, expressed or implied, is made. Consult Grosafe Chemicals Ltd. for further information.