Grosafe Chemicals Limited

SAFETY DATA SHEET

BIOPOWER® STIMULATE®

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name: BioPower® Stimulate®
Other Name(s):

1.2 Recommended use of the chemical and restrictions on use

Product Use: Soil revitaliser and plant nutrition

1.3 Supplier contact details:

Company name: Grosafe Chemicals Limited
Address: 20 Jean Batten Drive Mt Maunganui, 3116
Telephone: 0800 220 002
Email: info@grosafe.co.nz

Emergency telephone number 0800 CHEMCALL (0800 243 622)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the Hazardous Chemical

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

Ingredients	CAS	Proportion
Alginic acid	9005-32-7	1.5%
Natural Bio Stimulants		≤0.106%

Ingredients determined not to be hazardous, including water.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Information:

For advice call the National Poison Centre, telephone 0800 POISON [0800 764 766] for advice. Have label or Safety Data Sheet at hand

Ingestion: If swallowed, do NOT induce vomiting. Rinse mouth thoroughly. If symptoms develop seek medical attention immediately.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. If irritation occurs then get medical advice.

Eye Contact: Rinse with large quantities of water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists then get medical attention.

Inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use appropriate fire extinguisher for the surrounding environment.

5.2 Special exposure hazards

Firefighters 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.

5.3 Special protective equipment and precautions for fire fighters

Wear full personal protective equipment including with self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

In the event of an accidental spill, wear full protective clothing including respiratory, eye and face protection. Wash contaminated personal protective equipment and clothing, and dry before re-use.

6.2 Environmental precautions

Prevent spillage from entering drains or waterways. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

6.3 Fire and Explosive Properties

May form hazardous decomposition products.

6.4 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 vased product, if split on electrical equipment the product will cause short-circuits.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Read the label before use. Use only outdoors or in well-ventilated environment. Do not eat, drink or smoke when using. Wash hands thoroughly with soap and water after handling.

7.2 Conditions for safe storage

Store locked up in the closed original packaging out of reach of children and in a dry, cool, well-ventilated area. Keep away from food, drink and animals feeding stuffs.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Eye Protection

Safety glasses with side shields or chemical goggles should be worn. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower

8.2 Skin Protection

Wear gloves of impervious material.

Suitable protective work wear e.g. cotton overalls. Chemical resistant apron is suggested when dealing with large quantities.

8.3 Ingestion

Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash hands thoroughly with soap and water after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Odour	Seaside odour
pH	6.5 - 8.5
Boiling Point /Range	100º c
Flammability (solid, gas)	Not flammable
Oxidising Properties	Not an oxidising agent
Vapour pressure	Not determined
Relative density	1.15 – 1.25 g/cm³
Solubility	Completely soluble in water

SECTION 10: STABILITY AND REACTIVITY

10.1 Chemical stability

Stable under normal temperatures and pressure for storage and use.

10.3 Conditions to Avoid

Extreme temperatures.

10.4 Incompatible materials and possible hazardous reactions

No information available.

10.5 Hazardous decomposition products

Thermal decomposition may result in the release of toxic and/or irritating fumes.

10.6 Polymerisation:

This product will not undergo polymerisation reactions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Health hazard information

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

No adverse health effects 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.

11.2 Toxicological information:

Swallowed:	Swallowing large quantities may cause irritation, leading to pains in the stomach, nausea, vomiting and possible diarrhoea.
Eye:	May cause mild irritation to 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.

11.3 Toxicological data:

3-indolebutryic acid	Acute oral $LD_{50,}$ mouse 100mg/kg
Salicylic acid	Oral, mouse LD_{50} = 480 mg/kg Oral, rabbit LD_{50} = 1300 mg/kg Oral, rat LD_{50} = 891 mg/kg
Tricontanol	Acute oral LD_{50}: female mouse 1.5 g/kg, male mouse 8 g/kg

SECTION 12: ECOLOGICAL INFORMATION

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

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product Disposal

Use the product for its intended purpose according to label. Dispose of residues according to regional or local body bylaws.

13.2 Container Disposal

Do not use packaging for storage of other products. Dispose of containers according to regional or local body bylaws.

SECTION 14: TRANSPORT INFORMAITON

14.1 Road and Rail Transport:

Not scheduled as Dangerous Goods for Transport Purposes.

14.2 Marine Transport (IMO/IMDG):

Not scheduled as Dangerous Goods by criteria of the International Maritume Dangerous Goods Code for the transport by sea.

14.3 Air Transport (ICAO/IATA):

Not scheduled 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 the criteria of HSNO.

SECTION 16: OTHER INFORMATION

16.1 Date of preparation or last revision of SDS

SDS issued	07 June 2019
Previous SDS	07 May 2019

16.2 ABREVIATIONS

ADI	Acceptable Daily Intakes

CAS number	Chemical Abstracts Service Registry Number
CCID	Chemical Classification Identification Database
EPA	Environmental Protection Authority
ErC_{50}	Half maximal Effective Concentration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSNO	Hazardous Substances and New Organisms
HS	Health and Safety
HSR	Hazardous Substances Register
IARC	International Agency for Research on Cancer
LC_{50}	Median Lethal Concentration
LD_{50}	Median Lethal Dose
SDS	Safety Data Sheets
NOAEL	No Observable Adverse Effect Level
NOEL	No Observable Effect Level
NOS	Not otherwise specified
STEL	Short Term Exposure Limit
SWA	Safety Work Australia
TWA	Time-Weighted Average
UN Number	United Nations Number

16.3 REFERENCES

Manufacturer information

EPA CCID and Approved Substance databases

University of Hertfordshire Pesticides Properties Database

16.4 OTHER

BioPower® Stimulate® is a registered trademark of Grosafe Chemicals Ltd

End of Safety Data Sheet