

SAFETY DATA SHEET

HYBRID[®] SB

SECTION 1: Identification of the substance and supplier

Product name:	Hybrid SB
Recommended Use:	Non-ionic wetting and buffering adjuvant
Company:	Grosafe Chemicals Ltd.
Address:	20 Jean Batten Drive, Mt Maunganui 3116 (P.O. Box 14450 Tauranga 3141)
Email:	info@grosafe.co.nz
Telephone Toll Free Number:	0800 220 002
Emergency Telephone Number:	0800 CHEMCALL (0800 243 622)

SECTION 2: Hazards Identification

Hazard Classifications: Skin corrosion Category 1C; Serious eye damage Category 1; Specific target organ toxicity – single exposure Category 3.

Pictograms:



Signal Word: DANGER

Hazard statements

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

Precautionary statements:

Prevention

P260	Do not breathe dusts or mists
P264	Wash hands and exposed skin thoroughly after handling
P280	Wear protective gloves, clothing, and eye/face protection
P271	Use only outdoors or in a well-ventilated area

Response

P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P 353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower). Wash contaminated clothing before reuse
P363	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304 + P340	Immediately call a POISON CENTRE or doctor.
P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P305 + P351 + 338	Call a POISON CENTER or doctor if you well unwell

P312

Storage

P403 +P 233	Store in a well-ventilated place. Keep container tightly closed
P405	Store locked up

Disposal

P501	Dispose of contents/container in accordance with local regulations
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SECTION 3: Composition/information on ingredients

This substance is a mixture.

Chemical Entity	CAS No.	Proportion
alkylbenzene ether sulfonate	515-42-4	~ 50 %
hydroxypropanetricarboxylate	77-92-9	~ 50 %

SECTION 4: First Aid Measures

For advice, or if you feel unwell, call NATIONAL POISONS CENTRE (0800 POISON) for advice. Have product container or label at hand.

IF SWALLOWED:	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE or doctor.
IF ON SKIN (or hair):	Take off immediately all contaminated clothing. Rinse skin with water (or shower). Wash contaminated clothing before reuse. Immediately call a POISON CENTRE or doctor.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor.
IF INHALED:	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE or doctor.

Symptoms: Corrosive responses in eye (effects on cornea, iris, conjunctiva) and irritation to skin tissue, including respiratory tract.

Note to physician: Treat symptomatically.

SECTION 5: Fire Fighting Measures

Suitable Extinguishing Media:	Water fog, foam, CO ₂ , or dry chemical extinguishers.
Hazardous combustion products:	Non-flammable, but will burn if exposed to extreme heat, flame and other ignition sources. In event of fire the following may be released: Carbon monoxide, carbon dioxide, silicon dioxide.
Hazardous Decomposition Products:	None under normal conditions of storage and handling.
Special Fire Fighting procedures:	Isolate fire area. Evacuate downwind. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or smoke. Keep containers cool by spraying with water. Do not breathe or contact smoke, gases or vapours generated. Contain all runoff.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

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

Methods and materials for containment and cleaning up

Contain spilled material. For small liquid spills, use absorbent material such as sand, soil, vermiculite and recover into labelled drums that can be sealed for safe disposal. For large liquid spills, recover liquid into labelled containers then absorb remaining liquid and transfer to drums for disposal. Clean area with water and detergent. Dispose of contaminated materials to approved landfill in accordance with local regulations.

SECTION 7: Handling and Storage

Precautions for safe handling

Read the product label before use. Wear protective gloves, clothing and eye/face protection when handling this product. Do not breathe dusts or mist. After work, remove protective clothing and wash before re-use. Wash hands and exposed skin thoroughly after work before eating, smoking, drinking or using the toilet.

Storage

Store locked up in tightly closed original containers in a cool, dry, well-ventilated area out of direct sunlight. Do not store with food, feedstuffs, fertilisers and seeds. Keep away from food, drink and animal feedstuffs

Use only outdoors or in a well-ventilated area

SECTION 8: Exposure Control/Personal Protection

Occupational exposure limit values

No exposure limit established

Biological limit values

No exposure limits allocated.

Engineering controls

Use only outdoors or in a well-ventilated area. Use local exhaust at all process locations. Ventilate all transport vehicles prior to unloading. Keep containers closed when not in use. Refer to relevant regulations for further information concerning ventilation requirements.

Personal protective equipment (PPE)

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: AS/NZS 1715, **Protective Gloves:** AS 2161, **Occupational Protective Clothing:** AS/NZS 4501, **Industrial Eye Protection:** AS1336 and AS/NZS 1337, **Occupational Protective Footwear:** AS/NZS2210.

Eye/Face Protection: Wear protective glasses, goggles or face shield when mixing or applying product.

Skin Protection: Wear impervious gloves, coat, trousers, waterproof hat. Ensure all skin areas are covered.

Respirator: Where product is being sprayed and a mist could be produced, a respirator should be worn. It should be fitted with a cartridge suitable for agricultural chemicals and corrosives.

SECTION 9: Physical and Chemical Properties

Appearance	Red liquid
Odour	Characteristic, mild
Odour threshold	No data
pH	1-2
Melting/Freezing Point	No data
Boiling Point /Range	Boiling point 120 °C.
Flash point	No data
Flammability (solid, gas)	Non-flammable
Upper/lower flammability or explosive limits	No data
Vapour Pressure	No data
Vapour density	No data
Specific gravity	1.2 – 1.3
Solubility	Soluble in water
Partition Co-efficient n-octanol/water	No data
Auto-ignition temperature	No data
Decomposition temperature	No data
Viscosity	No data
Particle characteristics	No data

SECTION 10: Stability and Reactivity

Chemical reactivity and stability	Stable under normal storage conditions. Hazardous polymerization not known to occur.
Conditions to avoid	Avoid heat, flame and other ignition sources.
Incompatible substances or materials	Incompatible with substances in the following hazard classes: explosives (class 1), substances and mixtures which, in contact with water, emit flammable gases, oxidising gases, oxidising liquids, oxidising solids, organic peroxides, cyanides in the hazard class acute toxicity, alkalis with hazard classifications of skin corrosion Category 1A, 1B, 1C
Hazardous decomposition products	None under normal conditions of storage and use. In event of fire the following may be released: Carbon monoxide, carbon dioxide, silicon dioxide.

SECTION 11: Toxicological Information

The product is classified for health hazards according to an assessment of information on product components (mixture rules).

Acute toxicity	Not classified
Skin corrosion/irritation	Corrosive to skin
Serious eye damage/eye irritation	Causes serious eye damage
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity, single/repeated exposure	Causes respiratory irritation (single exposure)
Aspiration hazard	Not classified

SECTION 12: Environmental Information

The product is not classified as hazardous to the environment according to an assessment of information on product components (mixture rules).

Ecotoxicity	Not classified
Persistence and degradability	No data
Potential to be bioaccumulative	No data
Mobility in soil	No data
Other adverse effects	None known

SECTION 13: Disposal Considerations

Product Disposal

Dispose of this product only by using according to the label, or through a Chemical Recovery service or other licensed hazardous waste disposal facility.

Container Disposal

Triple rinse empty container and add rinsate to spray tank. Submit clean empty container to an Agrecovery® depot for recycling. Alternatively, puncture and dispose of at an approved landfill.

Precautions

Do not allow product or empty container to enter waterways.

Disposal methods to avoid

Do not burn empty container. Do not allow product or empty container to enter waterways.

SECTION 14: Transport Information

Road and Rail Transport:

Classified as Dangerous Goods for the transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Classified as Dangerous Good by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

UN Number:	3082
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID (hydroxypropanetricarboxylate 50%)
Transport hazard class(es)	8
Packing Group:	III
Hazchem	2Z
Special Precautions for User:	Not available
IMDG Marine pollutant:	No
Transport in Bulk:	Not available

Do not carry more than 1 L of this substance on a passenger service vehicle.

Transport according to the requirements of the Land Transport Rule 45001: Dangerous Goods 1999, the Maritime Rule 24A Carriage of Cargoes-Dangerous Goods and Civil Aviation Rule 92: Carriage of Dangerous Goods is deemed to comply with certain requirements of the Hazardous Substances (Identification) and (Emergency Management) Regulations (2001).

SECTION 15: Regulatory Information

Hazardous substance according to Hazardous Substances (Hazard Classification) Notice 2020. Approval number: HSR002491.

Hazardous classifications:	Skin corrosion Category 1C; Serious eye damage Category 1; Specific target organ toxicity – single exposure Category 3.
HSW (HS) Regulations 2017	Trigger Quantity
Certified Handler	Not required
Qualifications	Not applicable
Location Certificate	Not applicable
Signage Trigger Quantity (Schedule 3)	Not applicable
Emergency Response Plan (Schedule 5)	Not applicable
Secondary Containment (Schedule 16)	Not applicable
Tracking (Schedule 26)	Not applicable
Tolerable Exposure Level (TEL)	None set
Environmental Exposure Level (EEL)	None set
International Agreements	Not applicable

Additional information: Refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz)

ACVM registration: Exempt from registration under the Agricultural Compounds and Veterinary Medicines Act 1997.

SECTION 16: Other Information

Date of preparation or last revision of SDS

SDS issued 24 September 2024
SDS supersedes October 2020
Reason issued Update to GHS

ABBREVIATIONS

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

REFERENCES

Manufacturer information
 EPA Chemical Classification and Information Database (CCID)
 ECHA C&L Inventory

OTHER

Hybrid® is a registered trademark of NAPNutriscience Co. Ltd

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. No warranty, express or implied is made since we cannot anticipate or control the conditions under which the product may be used.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Grosafe Chemicals Ltd.