

Section 1.	Identification of the material and the supplier
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Product:	SURFMAX G®
Product Code:	N/A
Product Use:	Adjuvant for use in agricultural formulations.
Manufacturer:	Factory Manufacturing Limited
Address:	Unit 5, Waiuku Business Park, 23 Kitchener Road, Waiuku, Auckland
Telephone:	(09) 235 9060
Fax Number:	N/A
Emergency Telephone:	(09) 235 9060

Section 2.	Hazards Identification
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Hazardous as defined by the minimum degrees of hazard regulations of the HSNO Act.

ERMA approval No:	HSR002503
HSNO Classifications:	6.3B, 6.4A. 9.1D

HSNO Classification	Hazard Code	Hazard Statement
6.3B	H316	Causes mild skin irritation
6.4A	H319	Causes serious eye irritation.
9.1D	H402	Harmful to Aquatic Life

Prevention Code	Prevention Statement
P103	Read label before use.
P104	Read safety data sheet before use
P264	Wash thoroughly after handling.
P273	Avoid release to the environment (see also note 3 section16)
P280	Wear protective PVC/Nitrile gloves, protective clothing and eye protection.

Response code	Response Statement
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
None	Keep container tightly sealed. Store at <40°C. Protect containers from physical damage and check regularly for leaks.

Disposal Code	Disposal Statement
P501	Rinse container thoroughly and add washings to process. Puncture empty containers before disposal. Incinerate/dispose of unused product at an approved waste facility and in accordance with prevailing local authority legislation.

Section 3. Composition / Information on Ingredients

Hazardous Ingredients	Wt%	CAS Number
Surfactant	50-70	Proprietary
Water	30-50	7732-18-5

Section 4. First Aid Measures

Routes of Exposure:

IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN:	Rinse affected areas with water. If skin irritation occurs: Get medical advice/ attention.
IF SWALLOWED:	DO NOT induce vomiting. Rinse mouth. Give 2-3 glasses of water to drink. Get medical attention/advice if you feel unwell.
INHALATION:	Not relevant.

Section 5. Fire Fighting Measures

Hazard Type	Liquid surfactant, Eye irritant, slip hazard if spilled.
Hazards from decomposition products	Thermal decomposition may produce toxic fumes of amines or ammonia and oxides of carbon and nitrogen.
Suitable Extinguishing media	Foam, powder, carbon dioxide water spray Jet, High pressure water jet
Precautions for fire-fighters and special protective clothing	Wear protective clothing and chemically resistant eye/face protection. Product produces a slippery surface and may foam.
HAZCHEM CODE	None assigned

Section 6. Accidental Release Measures

Eliminate or isolate the source of leak or spill. Ensure that non-protected personnel are removed from the area. Wear appropriate protective clothing to prevent eye or skin exposure as detailed in sections 5 and 8 of this SDS (splash-proof goggles, Nitrile gloves, chemically resistant coveralls and boots).

Land Spill or Leaks

Harmful to aquatic life. Spilled product produces a slippery surface. Contain spillages. Absorb liquid onto inert material, e.g. sand and dispose of all waste and contaminated material in accordance with the requirements of the Local Authority responsible for industrial waste. Notify Police and local Health Protection Officer if there is any risk of contamination of watercourses. Do not allow unused material or contaminated waste to pollute the environment, especially water courses.

Water Spill or Leaks

Harmful to aquatic life. Ensure that non-protected personnel are removed from the area. Eliminate or isolate the source of leak or spill. Endeavour to contain the contaminated water by pumping out to waste tanks. If not feasible, block off all but the main drainage routes for the contaminated plume. Immediately advise the nearest Regional Council Pollution Control office.

Section 7. Handling and Storage**Precautions for safe handling:**

Before use carefully read the product label. This product must be handled away from food or feedstuffs. Use appropriate personal protective equipment (see section 8 of this SDS). Use of safe work practices are recommended to avoid eye or skin contact. Do not eat, drink or smoke when using this product. Observe good personal hygiene, including washing hands and face before eating. Prohibit eating, drinking and smoking in contaminated areas.

Conditions for safe Storage:

- This product is an eye irritant and mild skin irritant and should be stored and handled accordingly.
- Keep container tightly sealed.
- Store at <40°C
- Protect containers from physical damage and check regularly for leaks.

Section 8 Exposure Controls / Personal Protection**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

No workplace exposure standards have been set for any constituents of this product.

Engineering Controls:

No special controls necessary apart from the use of appropriate safety equipment during handling and manufacture.

Personal Protective Equipment:

Wear safety glasses or goggles, PVC/Nitrile gloves, coveralls and suitable footwear when manufacturing or handling this product.

General:

Always wash hands before eating, drinking, smoking or using the toilet. At the end of the job, wash gloves and remove, then remove goggles and wash, then remove other protective clothing.

Section 9 Physical and Chemical Properties

Physical State:	Liquid
Colour:	Light brown
Odour:	Characteristic
pH:	6-8 in aqueous solution.
Solubility:	Soluble in water
Relative Vapour Density (air=1):	Not Determined
Boiling point:	Not Determined
Freezing Point:	Not Determined
Melting Point:	N/A
Ignition Point:	N/A
Flash Point:	Not Determined
Specific Gravity:	1.14
Vapour Pressure:	Not Determined
% Volatiles:	
Evaporation Rate	Not Determined

Section 10. Stability and Reactivity

Chemical Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	None reported
Incompatibility:	None reported
Hazardous Decomposition:	None when used and handled as intended. Thermal decomposition may produce toxic fumes of amines or ammonia and oxides of carbon and nitrogen.

Section 11 Toxicological Information**Individual Component Toxicity Data:**

Acute oral toxicity: LD50 > 5000 mg/kg body weight
Method: OECD 401

Skin irritation: slightly irritating.
Method: OECD 404

Eye irritation: severely irritating
Method: OECD 405

In vitro mutagenicity: not mutagenic (analogy)

Health Effects from Exposure:

Low toxicity – eye corrosive, mild irritant: Use safe work practices to avoid eye or skin contact.

Eye: Causes serious eye irritation. Exposure may result in lacrimation, irritation, pain and redness.

Inhalation: Not expected to be a probable route of exposure.

Skin: Mild Irritant. Prolonged and repeated contact may result in drying and defatting of the skin.

Ingestion: Low toxicity.

Section 12. Ecotoxicological Information**Environmental Summary**

Acute fish toxicity: LC50 > 100 mg product/l.

Method: ISO 7346/2 (semi static)

Acute bacterial toxicity: EC0 > 100 mg product/l.

Method: Acute bacterial toxicity according to test method OECD 209.

Ultimate biodegradation:

Readily and rapidly degradable. All organic substances contained in the product achieve > 60% BOD/COD or

CO₂ liberation or > 70% DOC reduction in tests for ease of degradability. Threshold values for 'readily degradable' (e.g. to OECD method 301) are reached.

The surfactant(s) contained in this product complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Method: Annex III. Part A

Section 13. Disposal Considerations

General: Incinerate or dispose of with the approval of the responsible local authority. Rinse, puncture and recycle empty containers.

Legislation: Dispose of in accordance with the **Hazardous Substances (Disposal) Regulations 2001**.

Section 14 Transport Information

Not considered hazardous for transportation under NZS 5433:2007 TRANSPORT OF DANGEROUS GOODS ON LAND.

Section 15 Regulatory Information

ERMA approval No. HSR002503, Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2006.

HNSO Classifications: 6.3B, 6.4A. 9.1D

**HNSO CONTROLS Trigger quantities for this substance
Quantity**

Approved Handler	Not required
Location Certificate	Not required
Tracking	Not required
Signage	10,000 L
Emergency Response Plan	10,000 L

For quantities over 10,000 L there must be secondary containment of at least 110% of the contained volume and an Emergency Response Plan in place.

For quantities of 10000 L or more stored in one place for more than 18 hours there must be HSNO compliant signage (Hazchem) to alert emergency services and others of the hazard on the site.

Section 16 Other Information

1. Hazardous Substances Data Bank (HSDB), a database of the National Library of Medicine's TOXNET system (<http://toxnet.nlm.nih.gov>).

2. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

3. HSR002503, Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2006, section 11, carries an Exemption from specific labelling requirements for ecotoxic substances. For a substance with an ecotoxic hazard of— (a) HSNO 9.1C or 9.1D classification, the corresponding hazard statement required by sub-clause (4) is not required to appear on the label.

Review Date:

July 2024