



SAFETY DATA SHEET

HORTCARE™ KIWI STAINOFF LF

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name: **HORTCARE™ KIWI STAINOFF LF**
Other Name(s):

1.2 Recommended use of the chemical and restrictions on use

Product Use: Water stain remover for kiwifruit.

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

Hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996
Classifications: 6.1E (oral), 8.2C, 8.3A, 9.3C

2.2 Label elements:

Pictograms:



Signal Word: DANGER

Hazard statements:

- H303 May be harmful if swallowed.
- H314 Cause severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H433 Harmful to terrestrial vertebrates.

Precautionary statements:

Prevention

P102 Keep out of reach of children.

P103	Read label before use.
P260	Do not breathe mist/spray.
P264	Wash hands and any exposed skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing and eye/face protection.
<i>Response</i>	
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTRE or doctor if you feel unwell.
P301 + P330	IF SWALLOWED: Rinse mouth.
+ P331	Do NOT induce vomiting.
P303 + P361	IF ON SKIN (or hair): Remove immediately all contaminated clothing.
+ P353	Rinse skin with water.
P363	Wash contaminated clothing before re-use.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a Poison Centre or doctor.
P305 + P351	If IN EYES: Rinse cautiously with water for several minutes.
+ P338	Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE or doctor.
<i>Storage</i>	
P405	Store locked up.
<i>Disposal</i>	
P501	Dispose of contents/container in accordance with local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion
Lactic acid	50-21-5	50 - 60 %
Monosodium phosphate	7558-80-7	15 -25 %
Other ingredients (non-hazardous)	Trade secret	balance

This is a commercial product whose exact ratio of components may vary slightly.

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 with water and then give glass or two of water to drink. Get medical advice if person feels unwell.

Skin Contact: Remove contaminated clothing and rinse skin with plenty of water. Immediately get medical advice.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical advice.

Inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing. Get medical advice if person is having difficulty breathing.

4.2 Symptoms caused by exposure

None specified.

4.3 Medical attention and special treatment

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use water spray, alcohol resistant foam. Contain to prevent runoff into drains, sewers, waterways.

5.2 Specific hazards arising from the chemical

Fire decomposition products may be harmful if inhaled.

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 Methods and materials for containment and cleaning up

May be neutralized with lime. Contain spilled material, recover into labelled drums that can be sealed for safe disposal. If spray mixture is spilled, absorb and collect in drums. Deal with all spillages immediately. Clean area with water and detergent.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Read the label before use. Use in well-ventilated environment. Avoid contact with skin and eyes. Avoid inhalation of spray mist/aerosols. Wear protective equipment such as coat/trouser (overalls), boots, waterproof hat, respirator, gloves and eye protection. Wash hands and exposed skin after handling. Do not use spray equipment contaminated with this product for any other purpose unless first thoroughly cleaned with a suitable cleaning detergent.

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 Control parameters – exposure standards, biological monitoring

Ingredient	TWA (mg/m ³)	STEL (mg/m ³)

Exposure limits have not been established for any of the significant ingredients in this product. No biological limits applicable.

8.2 Engineering controls

Use outdoors to ensure adequate ventilation.

8.3 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 chemical 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 type G cartridge, suitable for agricultural chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid
Odour	Mild acidic
Odour threshold	Not known
pH	~ 1.8
Melting/Freezing Point	No data available
Boiling Point /Range	Not applicable
Flash point	Non flammable
Flammability (solid, gas)	Not applicable
Vapour Pressure	No data available
Vapour density	No data available
Specific gravity	1.2 -1.3 g/ml
Solubility	Completely soluble in water
Partition Co-efficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

This product is unlikely to react or decompose under normal storage conditions.

10.2 Chemical stability

Stable under normal temperatures and pressure for storage and use.

10.3 Conditions to Avoid

Storage at -10°C or above 30 °C.

10.4 Incompatible materials and possible hazardous reactions

No information available.

10.5 Hazardous decomposition products

Fire Decomposition: Possible harmful unspecified compounds

Polymerisation: No information.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Health hazard information

The product is classified for health hazards according to an assessment of information on product.

11.2 Toxicological information

Acute toxicity:	Classified as may be harmful if swallowed.
Aspiration hazard:	Product contains no components with aspiration hazard.

Respiratory irritation:	No effects identified.
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Product is not classified.
Germ cell mutagenicity:	No ingredients in product classified as presumed or suspected mutagens.
Carcinogenicity	No ingredients in product classified as presumed or suspected carcinogens.
Reproductive toxicity	No ingredients in product classified as presumed or suspected of impairing fertility or the unborn child
Specific target organ toxicity – single/repeated exposure	No ingredients in product classified for target organ toxicity.
Narcotic effects	Product contains no ingredient identified as causing narcotic effects.

11.3 Toxicological data:

Lactic acid	Oral, rat, female LD ₅₀ 3543 mg/kg b.w Oral, rat , male LD ₅₀ 4936 mg/kg b.w.
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SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

This product is classified as being harmful to terrestrial vertebrates.

Lactic acid	Bird (<i>Colinus virginianus</i>) LD ₅₀ >2250 mg/kg
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12.2 Environmental Fate

Breakdown in soil and groundwater: Readily biodegradable.

Bioaccumulation: Not expected to occur. Log P_{ow}: 0.62

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product Disposal

If possible dispose of by using according to the label, otherwise dispose of in an approved landfill or bury below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

13.2 Container Disposal

Do not use packaging for storage of other products. Triple rinse container and add residue to mixture. Empty containers should be taken to an Agrecovery collection site for recycling by the Agrecovery Rural Recycling Programme.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport:

Classified as Dangerous Good Class 8 according to NZS5433 Transport of Dangerous Goods on Land

Marine Transport (IMO/IMDG):

Classified as Dangerous Good Class 8 by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

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

UN Number:	3265
UN Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, ORGANIC (LACTIC ACID)
Transport hazard class(es)	8
Packing Group:	III
Special Precautions for User:	-
IMDG Marine pollutant:	No
Transport in Bulk:	-

SECTION 15: REGULATORY INFORMATION

15.1 HSNO Act 1996

Hazardous substance according to Hazardous Regulations

Approved substance number: **HSR002526**
Cleaning Products (Corrosive) Group Standard 2017

Hazardous classifications: 6.1E (oral), 8.2C, 8.3A, 9.3C

Controls: refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz)

15.2 ACVM Act 1997

Registration number: Not applicable (exempt product)

Refer to www.foodsafety.govt.nz for registration conditions.

SECTION 16: OTHER INFORMATION

16.1 Date of preparation or last revision of SDS

SDS issued 31st January 2019

SDS supersedes June 2013

Reason issued New product

16.2 ABBREVIATIONS

ADI	Acceptable Daily Intakes
CAS number	Chemical Abstracts Service Registry Number
CCID	Chemical Classification Identification Database
EPA	Environmental Protection Authority
ErC₅₀	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
LC₅₀	Median Lethal Concentration
LD₅₀	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

EPA CCID and Approved Substance databases

16.4 OTHER

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End of Safety Data Sheet