

Section 1: Identification

Product name: **Hasten™**

Other names: -

Recommended use: Adjuvant.

Manufacturer/Importer details: NZ Agritrade Limited
1 Robin Mann Place
Christchurch Airport, 8053
PO Box 292, Christchurch 8140
Phone: 03 372 0890

24 hour emergency contact: 0800 CHEMCALL (0800 243 622)
National Poisons Centre: 0800 POISON (0800 764 766)

Section 2: Hazard identification

Product is classified as non-hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996.

HSNO Approval: Not applicable
Hazardous classification: Not applicable
Signal word: Not applicable
Hazard statements: Not applicable
Prevention statements: Not required
Response statements: Not required.
Storage statement/s: Not required.
Disposal statement/s: Not required.
Additional label requirements: Not required.

Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

<i>Ingredient</i>	<i>CAS No.</i>	<i>Proportion %w/w</i>
Non-ionic surfactants	Trade secret	≥10 - ≤30
Ethyl and methyl esters of vegetable oil	Trade secret	>60

Section 4: First-aid measures

First aid measures: For advice contact National Poisons Centre (phone New Zealand 0800 764 766) or a doctor. Have product label or Safety Data Sheet at hand.

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

Ingestion: Rinse mouth with water then drink plenty of water. Get advice if person feels unwell.

Skin contact:	Immediately take off contaminated clothing and wash skin with soap and water. Get medical attention if irritation persists.
Eye contact:	Hold eyelids apart and rinse the eye cautiously for at least 15 minutes. Remove contact lenses, if present and easy to do, continue rinsing. Get medical advice if irritation persists.
First aid facilities:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.
Advice to doctor:	Treat symptomatically.
Section 5: Fire-fighting measures	
Flammability:	Not flammable.
Appropriate extinguishing media:	Dry chemical, water spray (fog), foam or carbon dioxide Keep fire exposed containers cool by spraying with water.
Combustion products:	During a fire toxic compounds/fumes/smoke including oxides of carbon, and other unidentified compounds may be emitted.
Special protective equipment and precautions for fire-fighters:	Self-contained breathing apparatus required. Do not allow contaminated runoff to enter drains or waterways.
HAZCHEM code:	-
Section 6: Accidental release measures	
Personal precautions:	Use appropriate protective equipment as listed in section 8.
Environmental precautions:	Use according to label. Avoid contamination of any waterway, drain or water supply with the substance or empty container. Notify local authority if contamination of any waterway.
Procedure for clean up:	Contain liquid spills and then absorb small spillages with inert material such as sand, soil, cat litter. If large liquid spill, dyke then pump liquid into labelled container. Adsorb remaining residue. Collect contaminated absorbed material into an appropriate, labelled salvage container that can be sealed. Wash down area with water and detergent. Absorb and collect washings for disposal. Dispose of to a landfill or waste collection facility.
Section 7: Handling and storage	
Safe handling:	Read label before use. Ensure areas are well-ventilated. Do not eat, drink or smoke when using. Vapours may form an ignitable mixture with air. Prevent electrostatic discharge. Keep sources of ignition well clear and have fire extinguisher at hand in case it is needed. Wash hands and face thoroughly after handling and before rest or meal breaks.

Safe storage: Keep out of reach of children. Store in original container, tightly closed and in a dry, cool, well-ventilated area away from foodstuffs and feeds.

Section 8: Exposure controls/personal protection

Occupational exposure limits: WES values are not set for components as of 12th edition of WES values published by WorkSafe November 2020
WES and BEI values.

<i>Ingredient</i>	<i>Exposure route</i>	<i>WES-TWA</i>	<i>WES-STEL</i>
-	-	-	-

Biological limit value: No Biological Index values have been set as of the 12th edition of WES and BEI values published by WorkSafe in November 2020.

Engineering controls: No specific requirements.

Respiratory protection: No specific requirements although product should be used in well-ventilated area or outdoors.

Hand protection: Chemical resistant gloves, e.g. nitrile, neoprene, recommended.

Eye protection: Safety glasses or chemical goggles or face visor recommended.

Skin protection: Overalls/boots.

General hygiene: Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.

Personal Protection: Further information on specific types of personal protective gear and related standards is available in Section 16.

Section 9: Physical and chemical properties

- (a) Appearance: Clear pale yellow liquid.
- (b) Odour: Characteristic.
- (c) Odour threshold: No data available.
- (d) pH: Not applicable.
- (e) Melting point/freezing point: ~0 °C
- (f) Initial boiling point and boiling range: >150 °C
- (g) Flash point: >150 °C
- (h) Flammability (solid, gas): Not applicable.
- (i) Upper/lower flammability or explosive limits: Not applicable
- (j) Vapour pressure: <1 mm Hg (20 °C)
- (k) Vapour density: Not available
- (l) Relative density: ~0.90 g/cm³
- (m) Solubility (ies): Emulsifies in water

(n)	Partition coefficient n-octanol/water:	Not determined
(o)	Auto-ignition temperature:	No data available.
(p)	Decomposition temperature:	No data available.
(q)	Kinematic viscosity:	Not applicable
Section 10: Stability and reactivity		
Stability of the substance:	Stable under normal conditions of storage and use.	
Conditions to avoid:	Combustion or thermal decomposition may evolve toxic or irritant vapours/compounds.	
Incompatible materials:	Strong acids, strong bases, strong oxidising agents.	
Hazardous decomposition products:	Not known to occur.	
Section 11: Toxicological information		
(i)	Acute toxicity:	Toxicity classifications determined by assessment of the components in the formulated mixture. Not classified. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea after ingestion of high doses.
(ii)	Aspiration hazard:	Not classified.
(iii)	Respiratory irritation:	Not classified.
(iv)	Skin corrosion / irritation:	Non irritating. Prolonged or repeated exposure may lead to skin degreasing.
(v)	Serious eye damage / irritation:	May be slightly to moderately irritating.
(vi)	Respiratory or skin sensitisation:	Not classified.
(vii)	Germ cell mutagenicity:	Not classified.
(viii)	Carcinogenicity:	Not classified for carcinogenic effects.
(ix)	Reproductive toxicity:	Not classified for adverse fertility or developmental effects.
(x)	Specific organ toxicity:	Not classified for adverse effects to organs/systems.
(xi)	Narcotic effects:	Not classified for narcotic effects.
	Toxicological information:	Not available.
Section 12: Ecological information		
(a)	Aquatic toxicity:	Ecotoxicological classifications determined by assessment of the components in the formulated mixture. Not acutely toxic to aquatic life.
(b)	Soil environment:	Not classified.
(c)	Terrestrial vertebrate toxicity:	Not classified.
(d)	Terrestrial invertebrate toxicity:	Not classified.
(e)	Persistence and degradability:	Biodegradable product.

(f) Potential to be bioaccumulative:	Not expected to be bioaccumulative.
(g) Mobility in soil:	No information available.
Ecotoxicological information:	Not available.
Section 13: Disposal considerations	
Product disposal:	Dispose of this product only by using according to the label or through Agrecovery chemical disposal or similar approved service or to an approved landfill.
Container disposal:	Ensure container/packaging is completely empty. Recycle through Agrecovery if possible or appropriate recycling facility. Alternatively, crush and bury in an approved landfill. Do not use container for any other purpose. Avoid contamination of any water supply or stream with product or empty container.
Section 14: Transport information	
UN number:	Non-regulated.
UN proper shipping name:	-
UN class:	-
Sub-class:	-
Packing group:	-
HAZCHEM:	-
Marine Pollutant:	-
Special precautions:	-
	This product is classified as a non-Dangerous Good. Consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2020 Transport of Dangerous Goods on Land for more information
Section 15: Regulatory information	
HSNO Act 1996:	Non-hazardous under the HSNO Act 1996. Refer to www.epa.govt.nz .
HSNO approval number:	Not applicable.
Tolerable exposure limit / environmental exposure limit:	-
HSNO controls:	-
Additional controls:	-
ACVM Act 1997:	Exempt from registration under the Agricultural Compounds Veterinary Medicines Act 1997.
ACVM registration number:	Not applicable
Conditions of registration:	See www.foodsafety.govt.nz
Section 16: Other information	
Date of issue:	26 March 2021
Reason for reissue:	New SDS

Replaces:	Not applicable
Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances with controls Workplace Exposure Standards and Biological Exposure Indices
Abbreviations:	ACVM: Agricultural Chemicals and Veterinary Medicines Group HSNO: Hazardous substances and New Organisms Act 1996 (HSNO Act) EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number LD50: Lethal Dose 50% (Population) LC50: Lethal Concentration 50% (Population) REI: Restricted Entry Interval WES-TWA: Workplace exposure standards – Time-weighted average WES-STEL: Workplace exposure standards – Short-term exposure limit
Personal Protection Standards:	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

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.