

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Trade name: HASTENT Spray Adjuvant****1.2. Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

**Application of the substance / the mixture:** Additive for plant protection products.**Uses advised against:** Other uses than the identified uses indicated above.**1.3. Details of the supplier of the safety data sheet****Manufacturer/Supplier:**Victorian Chemical Co. PTY. LTD  
83 Maffra Street  
Coolaroo, Victoria 3048  
Australia

Telephone: +61-(0) 3-9301 7000

Fax: +61-(0) 3-9309 7966

**Further information obtainable from:**cronfeld-baur@vicchem.com  
(Representative in Germany)**1.4. Emergency telephone number**GIZ-Nord, Göttingen, Germany  
+49 (0)551 19240**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008:** The product is not classified according to the CLP regulation.**2.2. Label elements****Labelling according to Regulation (EC) No 1272/2008:** void**Hazard pictograms:** void**Signal word:** void**Hazard statements:** void**Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

(Contd. on page 2)

Printing date: 03.11.2017

Version number 2

Revision: 03.11.2017

**Trade name: HASTEN† Spray Adjuvant**
**2.3. Other hazards**
**Results of PBT and vPvB assessment:**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Description:** Emulsion concentrate

**Dangerous components:** void

**Nonhazardous components:**

Rapeseed oil ethyl- and methylester	> 60%
Non ionic surfactants	< 40%

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information:**

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Take off contaminated clothing and wash before reuse.

If you feel unwell, seek medical advice.

**After eye contact:**

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

If you feel unwell, seek medical advice.

**After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

Nausea

Vomiting

Irritation

Diarrhea

Lacrimation

Redness

Repeated exposure may cause skin dryness or cracking.

(Contd. on page 3)

Printing date: 03.11.2017

Version number 2

Revision: 03.11.2017

**Trade name: HASTEN† Spray Adjuvant****4.3. Indication of any immediate medical attention and special treatment needed**

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing agents:**

Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry extinguishing powder  
Water spray

**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2. Special hazards arising from the substance or mixture**

The product is: combustible.  
Refer to section 10.6.

**5.3. Advice for firefighters****Protective equipment:**

Do not inhale explosion gases or combustion gases.  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Stop leak if safe to do so.  
Particular danger of slipping on leaked/spilled product.  
Wear protective equipment. Keep unprotected persons away.  
Avoid any contact with eyes or skin.  
Do not inhale gases / fumes / aerosols.

**6.2. Environmental precautions**

Do not allow product to reach sewage system or any water course.  
Do not allow to penetrate the ground/soil.  
Dumping into the environment must be prevented.  
Keep contaminated washing water and dispose of appropriately.

**6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Send for recovery or disposal in suitable receptacles.  
Waste disposal according to official state regulations.  
Clean the affected area carefully; suitable cleaners are:  
Water

**6.4. Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

(Contd. on page 4)

**Trade name: HASTENT<sup>†</sup> Spray Adjuvant**

See Section 13 for disposal information.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Ensure adequate ventilation.  
Avoid contact with eyes or skin. Wear personal protective equipment.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Ensure that washing facilities are available at the work place.  
Wash hands before breaks and at the end of work.  
Do not eat, drink, smoke or sneeze at the workplace.

**Information about fire - and explosion protection:**

The product is combustible.  
Keep ignition sources away - Do not smoke.

**7.2. Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Keep container tightly closed in a cool, well-ventilated place.  
Store only in the original container.

**Information about storage in one common storage facility:**

See section 10.5.  
Keep away from food, drink and animal feeding stuffs.

**Further information about storage conditions:**

Keep the packaging dry and well sealed to prevent contamination and adsorption of dampness.  
Protect from heat and direct sunlight.  
Store under lock and key and out of the reach of children.

**Storage class:** 10 Combustible liquids (DE TRGS 510)

**7.3. Specific end use(s)** See section 1.

**SECTION 8: Exposure controls/personal protection****Additional information about design of technical facilities:**

Technical measures and the application of adequate working methods take priority over the use of personal protection equipment.

**8.1. Control parameters****Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

(Contd. on page 5)

**Trade name: HASTENT<sup>†</sup> Spray Adjuvant****8.2. Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Ensure adequate ventilation.  
Store protective clothing separately.  
Wash contaminated clothing prior to re-use.  
Do not eat, drink, smoke or sniff while working.

**Respiratory protection:**

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, a self-contained breathing apparatus must be used!

**Protection of hands:**

Tested protective gloves are to be worn. When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code. Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Check the permeability prior to each renewed use of the glove.

**Material of gloves:**

Recommendation:

PVC gloves

Neoprene gloves

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Safety glasses

**Body protection:**

Only wear fitting, comfortable and clean protective clothing.

Protective work clothing

Chemical resistant safety shoes

**Limitation and supervision of exposure into the environment:** Dumping into the environment must be prevented.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Yellow
	Clear

<b>Odour:</b>	No information available.
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(Contd. on page 6)

Printing date: 03.11.2017

Version number 2

Revision: 03.11.2017

**Trade name: HASTEN† Spray Adjuvant**

<b>pH-value:</b>	No data available.
<b>Change in condition</b>	
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	> 200 °C
<b>Flash point:</b>	> 150 °C
<b>Ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Vapour pressure:</b>	No data available.
<b>Density at 20 °C:</b>	0,9 g/cm <sup>3</sup>
<b>Evaporation rate:</b>	No data available.
<b>Solubility in / Miscibility with water:</b>	Emulsifiable.
<b>Partition coefficient: n-octanol/water:</b>	No data available.
<b>Viscosity:</b>	
<b>Dynamic:</b>	No data available.
<b>Solvent content:</b>	
<b>VOC (EC)</b>	0.00 %
<b>9.2. Other information</b>	Pour point: -10°C°C

**SECTION 10: Stability and reactivity**

**10.1. Reactivity** The product is stable under standard conditions (temperature, pressure) of storage and handling.

**10.2. Chemical stability** The product is stable under standard conditions (temperature, pressure) of storage and handling.

**10.3. Possibility of hazardous reactions** No dangerous reactions known.

**10.4. Conditions to avoid**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Protect from direct sunlight.

(Contd. on page 7)

Printing date: 03.11.2017

Version number 2

Revision: 03.11.2017

**Trade name: HASTEN† Spray Adjuvant**
**10.5. Incompatible materials**

Strong oxidizing agents  
 Material, combustible

**10.6. Hazardous decomposition products**

In case of fire, the following products can be released:  
 Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**

**Acute toxicity:** Based on available data, the classification criteria are not met.

**LD/LC50 values:**

Oral	LD50	> 5000 mg/kg (rat) (OECD 425)
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)

**Primary irritant effect:**

**Skin corrosion/irritation:** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation:** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

**Other information (about experimental toxicology):**

Skin irritation test (OECD 404, rabbit): After 48h desquamation was detected in 2 of 3 animals and after 72h in all animals, but was reversible.

Eye irritation test (OECD 405, rabbit): No ocular irritation noted.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met.

**Reproductive toxicity:** Based on available data, the classification criteria are not met.

**STOT-single exposure:** Based on available data, the classification criteria are not met.

**STOT-repeated exposure:** Based on available data, the classification criteria are not met.

**Aspiration hazard:** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**
**12.1. Toxicity**
**Aquatic toxicity:**

LL50	> 100 mg/l (fish) (96h OECD 203)
EC50	> 100 mg/l (Daphnia sp.) (48h OECD 202)

(Contd. on page 8)

Printing date: 03.11.2017

Version number 2

Revision: 03.11.2017

**Trade name: HASTENT<sup>†</sup> Spray Adjuvant**

**12.2. Persistence and degradability** Easily biodegradable

**12.3. Bioaccumulative potential** No indication of bio-accumulation potential.

**12.4. Mobility in soil** No further relevant information available.

**General notes:**

Avoid transfer into the environment.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

**12.5. Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6. Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Recommendation:**

Waste disposal according to official state regulations.

Dumping into the environment must be prevented.

**Uncleaned packaging:**

**Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

**SECTION 14: Transport information**

**14.1. UN-Number**

ADR, ADN, IMDG, IATA

Void.

**14.2. UN proper shipping name**

ADR, ADN, IMDG, IATA

Void.

**14.3. Transport hazard class(es)**

ADR, ADN, IMDG, IATA

Class

Void.

**14.4. Packing group**

ADR, IMDG, IATA

Void.

**14.5. Environmental hazards**

Not applicable.

(Contd. on page 9)



Printing date: 03.11.2017

Version number 2

Revision: 03.11.2017

**Trade name: HASTEN† Spray Adjuvant**
**14.6. Special precautions for user** Not applicable.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

**UN "Model Regulation":** Void.

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU-Regulations  
 Regulation (EC) No 1907/2006 (REACH)  
 Regulation (EC) No 1272/2008 (CLP)  
 Regulation 98/24/EC (employee health protection)

**Directive 2012/18/EU**
**Named dangerous substances - ANNEX I:** None of the ingredients is listed.

**National regulations:** National legislation has to be observed!

**Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.  
 Employment restrictions concerning pregnant and lactating women must be observed.  
 Employment restrictions concerning women of child-bearing age must be observed.

**Other regulations, limitations and prohibitive regulations:** Storage class (DE TRGS 510): 10

**15.2. Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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**Training hints:**

The product should only be handled by persons, who were informed sufficiently about the nature of the product and about the necessary safety precautions.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances

(Contd. on page 10)

Printing date: 03.11.2017

Version number 2

Revision: 03.11.2017

**Trade name: HASTENT<sup>†</sup> Spray Adjuvant**

CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
SVHC: Substances of Very High Concern

**Sources:** Data arise from reference works and literature.

**\* Data compared to the previous version altered.**