



Material Safety Data Sheet

Hasten™ NT Ultra Spray Adjuvant

Date issued: 08/24/2018 (m/d/y)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Hasten NT Ultra Spray Adjuvant

VICTORIAN CHEMICALS GROUP

Address 83 Maffra St, Coolaroo, Victoria, 3048 AUSTRALIA

Emergency telephone number: All hours, (613) 787-5620, **ONLY** for health and environmental information.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients	% (w/w)	ACGIH TLV	CAS No.
Non-hazardous ingredients	100	NA	Mixture
Ethyl and methyl ester of vegetable oil	> 60	NA	NA
Non-ionic surfactants	10 - 30	NA	NA

Synonyms: None known.

Chemical name: Esterified Seed Oil Adjuvant

Product use: Agricultural Spray Adjuvant

Registration number: 31760 - Pest Control Products (PCP) Act

3. HAZARDS IDENTIFICATION

Physical Properties: Clear yellow liquid

Routes of entry: Skin, eyes, ingestion and inhalation.

Symptoms of acute exposure: May cause moderate irritation to the eyes

Effect of chronic exposure: None known.

4. FIRST AID MEASURES

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Skin or clothing contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Ingestion: Call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

Notes to Physician: There is no specific antidote, treat symptomatically

5. FIRE FIGHTING MEASURES

Flash point (°C): > 150 °C (TCC)

Auto ignition temperature (°C): No data

Flammable limits (lower): Not available

Flammable limits (upper): Not available

Extinguishing media: For large fires apply aqueous film forming foam or water in the form of a fog. For small fires use carbon dioxide or dry chemical.

Fire fighting procedures: Wear self-contained breathing apparatus and impervious clothing. Minimize the amount of water used and contain the run-off from entering water supplies or the environment by diking.

Other fire and explosion hazards: None known

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear personal protective equipment as described in Section 8.

Environmental precautions: Stop any further release to land or water. For water, utilize damming and/or water diversion to minimize spread of contamination to the environment.

Spills, leaks or releases: Absorb spilled material with a suitable absorbent. Wash hard surfaces with detergent and water, then absorb with absorbent. Collect any contaminated soil, water and absorbent and place in a waste container for proper disposal. Notify applicable government authority if release is reportable or could adversely affect the environment.

Deactivating chemicals: None known.

7. HANDLING AND STORAGE

Handling procedures: Use only with adequate ventilation and avoid contact with eyes, skin and clothing. Wear appropriate personal protective equipment. Wash thoroughly after use. If clothing becomes contaminated, wash thoroughly before re-use.

Storage requirements: Store in a cool, dry and well-ventilated area. Keep away from heat, sparks and flame. Keep containers closed. Keep out of reach of children and pets.

Storage temperature: Do not expose to temperatures above 40°C for extended periods.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection: Chemical safety goggles.

Skin protection: Chemical resistant gloves and protective clothing should be impervious under conditions of use.

Respiratory protection: If misting conditions exist, use NIOSH/MSHA approved respirator for organic vapours.

Other protective equipment: None required.

Engineering controls: Provide local exhaust or ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear yellow liquid.

Specific gravity: 0.895 at 20°C.

Boiling point: > 200°C

Melting point: < 0°C

Solubility (water): Milky emulsion.

Solubility (other): No data

pH: Not available.

% Volatile: Not determined

Evaporation rate (ether=1): Not determined

Vapour pressure (mm Hg at 20°C): Not determined

Vapour density (air=1): Not determined

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive heat.

Incompatibility with other substances: Strong oxidizing agents.

Hazardous decomposition products: Thermal decomposition may cause the release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Acute effects:

Swallowed: Ingestion of large quantities may cause irritation to the digestive tract, nausea, vomiting or diarrhoea.

Acute Oral: Based on components and similar products LD₅₀ expected to be >5000 mg/kg.

Eye Contact: May cause eye irritation, tearing, stinging, blurred vision and redness.

Skin: Repeated exposure may cause drying, redness, itching and irritation.

Acute Dermal: Based on components and similar products LD₅₀ expected to be >5000 mg/kg.

Inhaled: Inhalation of vapour or mist may cause irritation of the nose, throat and respiratory system.

Chronic effects: Repeated or prolonged skin contact may result in skin irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not toxic to Daphnia Magna (water flea) OECD 202. LC₅₀ (48h) >100 mg/L.

Not toxic to Fish (Danio rerio) OECD 203. LC₅₀ (96h) >100 mg/L.

Persistence and degradability: This product is vegetable oil based and is ultimately biodegradable in soil and water.

Mobility: Product is emulsifiable and disperses in water.

13. DISPOSAL CONSIDERATIONS

Container Disposal: Non-refillable container. Do not reuse. Triple rinse container and place rinse water into the spray tank. If available, offer for recycling or puncture and dispose of in a sanitary landfill, or by other procedures approved by provincial and local authorities.

Waste Disposal: Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations. Do not dispose of waste with normal garbage or to sewer systems.

14. TRANSPORT INFORMATION

Canadian TDG classification: Not regulated.

Transportation emergency telephone number: (613) 787-5620

15. REGULATORY INFORMATION

WHMIS classification: This product is registered under the *Pest Control Product Act* and is exempt from the requirements of WHMIS.

16. OTHER INFORMATION

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Victorian Chemicals Group will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This Material Safety Data Sheet is valid for three years.

Prepared by: VICTORIAN CHEMICALS GROUP