

# Heads Up® Material Safety Data Sheet

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**Heads Up Plant Protectants**  
3002 Millar Ave.  
Saskatoon SK  
CANADA S7K5X9

**Date of MSDS Preparation (Y/M/D): 2013/03/15**

**MSDS Prepared by:**  
Heads Up Plant Protectants

For further information contact:  
1-866-368-9306

## 1. PRODUCT IDENTIFICATION

Synonyms: Saponin Extract  
CAS No: 404589-23-7  
Molecular Weight: not applicable to mixtures  
Chemical Formula: not applicable  
Product Codes:

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS No</u>	<u>Percent</u>	<u>Hazardous</u>
Saponin	404589-23-7	61.3%	no

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## 3. HAZARDS IDENTIFICATION

Caution. Avoid inhalation of the dust

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## 4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen (i.e. medical attention).  
Ingestion: Drink plenty of milk or water. Acute Oral LD 50 > 5,000gm/Kg body weight.  
Skin Contact: Slightly irritating. Rinse with water. Get medical attention if irritation persists.  
Eye Contact: Mildly irritating. Flush with water, lifting lower and upper eyelids occasionally. Call a physician if irritation persists.

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## 5. FIRE FIGHTING MEASURES

The product itself is non-flammable.  
Fire: As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.  
Explosion: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.  
  
Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

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## 6. ACCIDENTAL RELEASE MEASURES

Ventilate area of dust. Clean up spills in a manner that does not disperse dust in the air. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

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## 7. HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne Exposure Limits: 0.5 mg. / liter of air

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible.

Personal Respirators (NIOSH Approved): Wear a dust mask when handling powder.

Skin and Eye Protection: Wear protective clothing including boots and gloves to avoid contact with open cuts or sores. May cause mild irritation to eyes, nose and throat. Wear a dust mask when handling powder.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Cream – Beige Yellow fine particle powder.

Odor: mild slightly meaty odor.

Solubility: Soluble in water.

Specific Gravity: No information found.

pH: 6.27

Boiling Point: No information found.

Melting Point: 156.2 degrees C

Bulk Density: 0.20 g/ml

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

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## 10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizers.

Conditions to Avoid: Incompatibles.

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## 11. TOXICOLOGICAL INFORMATION

Acute inhalation LC 50 calculated by Probit Method was 0.824 mg/L for male rats and > 2.04 mg/L for female rats. Primary Eye irritation , mildly irritating. Acute Oral Toxicity LD 50 single dose > 5,000 mg/Kg Body weight in rats. Primary skin irritation, slightly irritating in rabbits. Acute dermal toxicity >5,000 mg/Kg body weight in rats. Dermal Sensitization , not a contact sensitizer in Guinea Pigs.

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## 12. ECOLOGICAL INFORMATION

Toxic to fish and other aquatic organisms. Do not contaminate water bodies or wetland areas.

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## 13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility.

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## 14. TRANSPORT INFORMATION

Not regulated.

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## 15. REGULATORY INFORMATION

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## 16. OTHER INFORMATION

Label Hazard Caution:  
Avoid Breathing Dust of powder.

Label Precautions:  
Avoid breathing dust. Wear a dust mask when handling powder.

Label First Aid:  
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**NOTICE TO READER:** THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.