



# Safety Data Sheet

Issue Date: 4-Apr-2017

Revision Date: 4-Apr-2017

Version 1

## 1. IDENTIFICATION

### Product Identifier

Product Name

**Ladder All In**

### Other means of identification

SDS #

ADAMA-216

Registration Number(s)

Not registered in the US  
Pest Control Product Reg. No. 32497

UN/ID No

UN3082

### Recommended use of the chemical and restrictions on use

Recommended Use

Herbicide.

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Adama Agricultural Solutions Canada Ltd.  
302- 179 McDermot Avenue  
Winnipeg, MB  
R3B 0S1  
1-855-264-6262

### Emergency Telephone Number

Emergency Telephone (24 hr)

For fire, spill and/or leak contact INFOTRAC:  
1-800-535-5053 (North America) 1-352-323-3500 (International)  
For medical emergencies and health/safety inquiries, contact PROSAR:  
1-877-250-9291

## 2. HAZARDS IDENTIFICATION

This chemical is a product registered by the Canadian Pest Control Products Act and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-PCPA registered chemicals. Please see Section 15 for additional information. This product has been classified according to Canada's Hazardous Product Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

**Physical state** Liquid

### Classification

|                                   |            |
|-----------------------------------|------------|
| Serious eye damage/eye irritation | Category 1 |
| Acute toxicity – Inhalation       | Category 4 |
| Aspiration toxicity               | Category 1 |

### Signal Word

**Danger**

**Hazard statements**

Causes serious eye damage

Harmful if inhaled

May be fatal if swallowed and enters airways

**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a poison center or doctor/physician

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a poison center/doctor if you feel unwell

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

Keep out of the reach of children

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards**

Toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                  | CAS No.     | Weight-% |
|--------------------------------|-------------|----------|
| CLODINAFOF-PROPARGYL           | 105512-06-9 | 7-8      |
| Aromatic Petroleum Distillates | Proprietary | 25-30    |
| Proprietary Solvent            | Proprietary | 5-15     |
| Proprietary Hydrocarbon        | Proprietary | <1       |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST AID MEASURES

**First Aid Measures****General Advice**

Get medical advice/attention if you feel unwell. Take the container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**Eye Contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

**Skin Contact**

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. |
| <b>Ingestion</b>  | IF SWALLOWED: call a poison control center or physician immediately. Do NOT induce vomiting. Do NOT give liquids. Never give anything by mouth to an unconscious person.  |

**Most important symptoms and effects**

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Causes serious eye damage. Harmful if inhaled. May be fatal if swallowed and enters airways. |
|-----------------|--|

**Indication of any immediate medical attention and special treatment needed**

|                           |   |
|---------------------------|---|
| <b>Notes to Physician</b> | This product contains a petroleum distillate. DO NOT INDUCE VOMITING. Vomiting may cause aspiration pneumonia. Treat symptomatically for ingestion and/or skin and eye contact. |
|---------------------------|---|

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Not determined.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

|                                 |   |
|---------------------------------|---|
| <b>Personal Precautions</b>     | Use personal protective equipment as required.    |
| <b>For Emergency Responders</b> | Use personal protection recommended in Section 8. |

**Environmental precautions**

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | See Section 12 for additional Ecological Information. |
|----------------------------------|---|

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

|                                |   |
|--------------------------------|---|
| <b>Methods for Containment</b> | Prevent runoff to storm sewers and ditches leading to natural waterways.  |
| <b>Methods for Clean-Up</b>    | Soak up with inert absorbent material. Clean contaminated surface thoroughly. Place in appropriate containers for disposal. |

**7. HANDLING AND STORAGE****Precautions for safe handling**

|                                |  |
|--------------------------------|--|
| <b>Advice on Safe Handling</b> | DO NOT get in eyes or on skin. This product contains the allergen soy. Avoid contact with clothing. Wear coveralls or long sleeved shirt and long legged pants, chemical resistant gloves, and |
|--------------------------------|--|

goggles or a face shield when mixing, loading or during equipment clean-up or repair. During application, wear coveralls or long sleeved shirt and long legged pants. Wash gloves thoroughly with soap and water before removing them during any operation. Wash hands thoroughly with soap and water after using this product and before eating, drinking or smoking.

Remove contaminated clothing immediately after use.

Store and wash contaminated clothing separately from household laundry before reuse. Wash thoroughly with soap and water after handling. Handle and apply only as recommended on product label.

Do not eat, drink or smoke while mixing, loading or during application.

Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Apply only when the potential for drift to areas of human habitation or activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings. Contaminated work clothing must not be allowed out of the workplace.

#### **Conditions for safe storage, including any incompatibilities**

|                               |  |
|-------------------------------|--|
| <b>Storage Conditions</b>     | Store the product in closed original container in a well-ventilated room. Keep out of reach of children, unauthorized persons and animals. To prevent contamination, store this product away from food, feed, and fertilizer. Store locked up. |
| <b>Incompatible Materials</b> | None known based on information supplied.  |

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Exposure Guidelines**

| <b>Chemical Name</b>    | <b>ACGIH TLV</b> | <b>OSHA PEL</b>  | <b>NIOSH IDLH</b>   |
|-------------------------|------------------|--|---|
| Proprietary Hydrocarbon | TWA: 0.2 ppm     | TWA: 0.2 ppm<br>TWA: 1 mg/m <sup>3</sup><br>(vacated) TWA: 0.2 ppm<br>(vacated) TWA: 1 mg/m <sup>3</sup> | IDLH: 100 mg/m <sup>3</sup><br>TWA: 0.2 ppm<br>TWA: 1 mg/m <sup>3</sup> |

#### **Appropriate engineering controls**

|                             |   |
|-----------------------------|---|
| <b>Engineering Controls</b> | Please refer to the product label. Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. |
|-----------------------------|---|

#### **Individual protection measures, such as personal protective equipment**

|                                       |   |
|---------------------------------------|---|
| <b>Eye/Face Protection</b>            | Goggles or face shield.   |
| <b>Skin and Body Protection</b>       | Wear coveralls or long sleeved shirt and long legged pants, chemical resistant gloves, and goggles or a face shield when mixing, loading or during equipment clean-up or repair. During application, wear coveralls or long sleeved shirt and long legged pants.  |
| <b>Respiratory Protection</b>         | In areas with inadequate ventilation a NIOSH-approved chemical cartridge respirator with organic vapor cartridges and pesticide pre-cartridges or a self-contained breathing apparatus may be required when working with this product.  |
| <b>General Hygiene Considerations</b> | Handle in accordance with good industrial hygiene and safety practice. Wash gloves thoroughly with soap and water before removing them during any operation. Wash hands thoroughly with soap and water after using this product and before eating, drinking or smoking.<br>Remove contaminated clothing immediately after use.<br>Store and wash contaminated clothing separately from household laundry before reuse. Wash thoroughly with soap and water after handling. Handle and apply only as |

recommended on product label.  
Do not eat, drink or smoke while mixing, loading or during application.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                |                       |                |
|-----------------------|----------------|-----------------------|----------------|
| <b>Physical state</b> | Liquid         | <b>Odor</b>           | Not determined |
| <b>Appearance</b>     | Not determined | <b>Odor Threshold</b> | Not determined |
| <b>Color</b>          | Not determined |                       |                |

| <u>Property</u>                     | <u>Values</u>  | <u>Remarks • Method</u> |
|-------------------------------------|----------------|-------------------------|
| <b>pH</b>                           | 5-6.5          |                         |
| <b>Melting Point/Freezing Point</b> | Not determined |                         |
| <b>Boiling Point/Boiling Range</b>  | Not determined |                         |
| <b>Flash Point</b>                  | >100°C         |                         |
| <b>Evaporation Rate</b>             | Not determined |                         |
| <b>Flammability (Solid, Gas)</b>    | Not determined |                         |
| <b>Flammability Limits in Air</b>   |                |                         |
| <b>Upper Flammability Limits</b>    | Not determined |                         |
| <b>Lower Flammability Limit</b>     | Not determined |                         |
| <b>Vapor Pressure</b>               | Not determined |                         |
| <b>Vapor Density</b>                | Not determined |                         |
| <b>Relative Density</b>             | 1.04           |                         |
| <b>Water Solubility</b>             | Not determined |                         |
| <b>Solubility in other solvents</b> | Not determined |                         |
| <b>Partition Coefficient</b>        | Not determined |                         |
| <b>Auto-ignition Temperature</b>    | Not determined |                         |
| <b>Decomposition Temperature</b>    | Not determined |                         |
| <b>Kinematic Viscosity</b>          | Not determined |                         |
| <b>Dynamic Viscosity</b>            | 60 mPa (s)     |                         |
| <b>Explosive Properties</b>         | Not determined |                         |
| <b>Oxidizing Properties</b>         | Not determined |                         |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to Avoid

None known based on information supplied.

### Incompatible Materials

None known based on information supplied.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | Causes serious eye damage.                    |
| <b>Skin Contact</b> | Slightly irritating                           |
| <b>Inhalation</b>   | Harmful if inhaled.                           |
| <b>Ingestion</b>    | May be fatal if swallowed and enters airways. |

### Component Information

| Chemical Name                  | Oral LD50             | Dermal LD50             | Inhalation LC50 |
|--------------------------------|-----------------------|-------------------------|-----------------|
| Aromatic Petroleum Distillates | = 1110 mg/kg ( Rat )  | > 2500 mg/kg ( Rat )    | -               |
| Proprietary Solvent            | = 29000 mg/kg ( Rat ) | > 3000 mg/kg ( Rabbit ) | -               |
| Proprietary Hydrocarbon        | = 2140 mg/kg ( Rat )  | > 5010 mg/kg ( Rabbit ) | -               |

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

### Numerical measures of toxicity

**Acute Oral LD50 (Rat):** >2000 mg/kg

**Acute Dermal LD50 (Rabbit):** >2000 mg/kg

**Acute Inhalation LC50 (Rat):** 1.01-5.01 mg/L

**Eye Irritation:** Causes serious eye damage

**Dermal Irritation:** Slightly irritating

**Dermal Sensitization:** Not a skin sensitizer

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

This product contains aromatic petroleum distillates which are toxic to aquatic organisms.

| Chemical Name           | Algae/aquatic plants                               | Fish  | Crustacea   |
|-------------------------|--|---|---|
| Proprietary Solvent     | 500: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 | 1000: 96 h <i>Cyprinus carpio</i> mg/L LC50 semi-static 5300: 96 h <i>Leuciscus idus</i> mg/L LC50 static   | 500: 48 h <i>Daphnia magna</i> mg/L EC50                |
| Proprietary Hydrocarbon | 1.28: 3 h <i>Chlamydomonas angulosa</i> mg/L EC50  | 1.17 - 1.81: 96 h <i>Pimephales promelas</i> mg/L LC50 static 1.65 - 2.29: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 4.3 - 5.1: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 1.4 - 1.6: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static | 0.63 - 0.85: 48 h <i>Daphnia magna</i> mg/L EC50 Static |

### Persistence/Degradability

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

| Chemical Name           | Partition Coefficient |
|-------------------------|-----------------------|
| Proprietary Solvent     | 0.48                  |
| Proprietary Hydrocarbon | 4                     |

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not contaminate water, food, or feed by storage or disposal.

**Contaminated Packaging**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
  2. Make the empty, rinsed container unsuitable for further use.
- If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

**14. TRANSPORT INFORMATION****DOT/TDG (Road/Rail)**

Package size less than 119 Gallons (450 Liters): Not Regulated

Package size larger than 119 Gallons (450 Liters):

**UN/ID No** UN3082  
**Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s. (Clodinafop-propargyl)  
**Hazard Class** 9  
**Packing Group** III  
**Marine Pollutant** Yes.

**IATA**

**UN/ID No** UN3082  
**Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s. (Clodinafop-propargyl)  
**Hazard Class** 9  
**Packing Group** III  
**Marine Pollutant** Yes

**IMDG**

**UN/ID No** UN3082  
**Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s. (Clodinafop-propargyl)  
**Hazard Class** 9  
**Packing Group** III  
**Marine Pollutant** Yes

**TDG**

Section 1.45.1 of the TDG Regulations provides an exemption from documentation and safety marks only for this product and only when transported by a road or railway vehicle.

## 15. REGULATORY INFORMATION

### International Inventories

| Chemical Name                  | TSCA | DSL/NDSL | EINECS/E<br>LINCS | ENCS    | IECSC | KECL    | PICCS | AICS |
|--------------------------------|------|----------|-------------------|---------|-------|---------|-------|------|
| CLODINAFOP-PROPARGYL           | X    |          |                   |         |       |         |       |      |
| Aromatic Petroleum Distillates | X    | X        | X                 | Present | X     | Present | X     | X    |
| Proprietary Solvent            | X    | X        | X                 | Present | X     | Present | X     | X    |
| Proprietary Hydrocarbon        | X    | X        | X                 | Present | X     | Present | X     | X    |

#### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

| Chemical Name           | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|-------------------------|--------------------------|----------------|---|
| Proprietary Hydrocarbon | 100 lb                   |                | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name             | CAS No. | Weight-% | SARA 313 - Threshold Values % |
|---------------------------|---------|----------|-------------------------------|
| Proprietary Hydrocarbon - |         | <1       | 1.0                           |

### US State Regulations

#### U.S. State Right-to-Know Regulations

| Chemical Name           | New Jersey | Massachusetts | Pennsylvania |
|-------------------------|------------|---------------|--------------|
| Proprietary Hydrocarbon | X          | X             | X            |

#### Pesticide Registration Number

Not registered in the US  
Pest Control Product Reg. No. 32497

#### **Pest Control Product Statement**

This chemical is a pest product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets.

Read the approved label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

#### Product Label

Caution

Poison

Danger- Corrosive to eyes

KEEP OUT OF REACH OF CHILDREN

**Difference between SDS and product label**

|                             | Product Label                           | SDS  |
|-----------------------------|---|--|
| <b>Signal Word</b>          | Caution/Poison/Danger                   | Danger                                       |
| Eye damage/irritation       | Corrosive to eyes                       | Causes serious eye damage                    |
| Acute toxicity – inhalation | N/A                                     | Harmful if inhaled                           |
| Aspiration                  | Vomiting may cause aspiration pneumonia | May be fatal if swallowed and enters airways |

**16. OTHER INFORMATION****NFPA****Health Hazards**

Not determined

**Flammability**

Not determined

**Instability**

Not determined

**Special Hazards**

Not determined

**HMIS****Health Hazards**

Not determined

**Flammability**

Not determined

**Physical hazards**

Not determined

**Personal Protection**

Not determined

**Issue Date:** 4-Apr-2017  
**Revision Date:** 4-Apr-2017  
**Revision Note:** New format

**Notice to User**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**