



# Safety Data Sheet (SDS)

Issue Date: 13-Dec-2016

Revision Date: 05-Mar-2020

Version 5

## 1. IDENTIFICATION

### Product Identifier

**Product Name** ADAMA X-Act Adjuvant

### Other means of identification

**SDS #** ADAMA-211

**Registration Number(s)** 28225 (*Pest Control Products Act*)

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

**Recommended Use** Adjuvant.

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

#### **Registrant**

ADAMA Agricultural Solutions Canada Ltd.  
300 – 191 Lombard Avenue  
Winnipeg, Manitoba R3B 0X1  
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 PROPHARMA Group:  
1-877-250-9291

## 2. HAZARD IDENTIFICATION

This chemical is a pest control product registered by Health Canada's Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). 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).

**Appearance:** Clear amber liquid

**Physical state:** Liquid

**Odor:** Oil smell

### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1B

### Hazard Pictogram(s)



### Signal Word

**WARNING**

### Hazard statements

H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H317 - May cause an allergic skin reaction

**Precautionary Statements - Prevention**

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P264 - Wash hands thoroughly after handling

**Precautionary Statements - Response**

P310 - Immediately call a poison center or doctor/physician

Specific treatment (see this label)

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P363 - Wash contaminated clothing before reuse

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**

P405 - Store locked up

**Precautionary Statements - Disposal**

Dispose of in accordance with federal, provincial and local regulations

**Other hazards**

This product contains the allergen soy

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight-%
Anionic/Nonionic Detergent Blend (Phosphate Ester Surfactant)	Proprietary	>99 (30)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

**4. FIRST AID MEASURES****First Aid Measures****General Advice**

Take the container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**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.

**Skin 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.

**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.

**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.

**Most important symptoms and effects****Symptoms**

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Causes skin and mucous membrane irritation. Severely irritating to the eyes.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Water fog, foam, dry chemical powder, carbon dioxide (CO<sub>2</sub>)

**Unsuitable Extinguishing Media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific Hazards Arising from the Chemical** During fire, gases hazardous to health may be formed.

**Protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### **Environmental precautions**

**Environmental precautions** Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. See Section 12 for additional Ecological Information.

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

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Prevent run-off to sewers, streams or other bodies of water.

**Methods for Clean-Up** Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.  
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

## 7. HANDLING AND STORAGE

### **Precautions for safe handling**

**Advice on Safe Handling** Avoid contact with skin, eyes and clothing. Goggles, face shield and gloves should be worn when handling, mixing and loading. Wash concentrate from skin or eyes immediately. Avoid breathing vapours or spray mist. Avoid working in spray mist. After use, wash hands and other exposed skin thoroughly. Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. Avoid contamination of ponds, streams, rivers and other water sources. Do not apply by air.

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

**Storage Conditions** May be stored at any temperature. Store away from incompatible materials.

**Incompatible Materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Appropriate engineering controls**

**Engineering Controls** 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**

**Eye/Face Protection** Safety glasses with side shields (or goggles)

**Skin and Body Protection** Wear appropriate chemical resistant gloves and clothing

**Respiratory Protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations** When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 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>	Amber Liquid	<b>Odor Threshold</b>	Not determined
<b><u>Property</u></b>		<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
pH		≥2.30 (5% in 1:1 H <sub>2</sub> O:IPA)	
Melting Point/Freezing Point		Not determined	
Boiling Point/Boiling Range		>100 °C	
Flash Point		>93.9 °C	Pensky-Martens Closed Cup
Evaporation Rate		Estimated slower than ethyl ether	
Flammability (Solid, Gas)		Not determined	
Flammability Limits in Air			
Upper Flammability Limits		Not determined	
Lower Flammability Limit		Not determined	
Vapor Pressure		Not determined	
Vapor Density		Estimated heavier than air	
Relative Density		0.94 g/cm <sup>3</sup>	
Water Solubility		Not determined	
Solubility in other solvents		Not determined	
Partition Coefficient		Not determined	
Auto-ignition Temperature		Not determined	
Decomposition Temperature		Not determined	
Kinematic Viscosity		Not determined	
Dynamic Viscosity		34 cP @25°C	
Explosive Properties		Not determined	
Oxidizing Properties		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**

Avoid temperatures exceeding the flash point. Contact with incompatible materials

**Incompatible Materials**

Strong oxidizing agents, alkalis, caustics.

**Hazardous Decomposition Products**

Decomposition of this product may yield oxides of phosphorus. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

<b>Eye Contact</b>	Causes serious eye irritation.
<b>Skin Contact</b>	Causes skin irritation.
<b>Inhalation</b>	No adverse effects due to inhalation are expected
<b>Ingestion</b>	May be harmful if swallowed

**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):** >5,000 mg/kg

**Acute Dermal LD50 (Rabbit):** >4,000 mg/kg

**Acute Inhalation LC50 (Rat):** No data available

**Eye Irritation:** Severely irritating

**Dermal Irritation:** Moderately irritating

**Dermal Sensitization:** May cause an allergic skin reaction

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

No ecotoxicity data noted for the ingredient(s).

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Not determined

**Other Adverse Effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected.

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods**

<b>Disposal of Wastes</b>	Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Dispose in accordance with all local, state/provincial and federal regulations.
<b>Contaminated Packaging</b>	Follow advice on product label. Do not re-use empty containers. Triple rinse containers. Puncture container to avoid re-use.

Consult provincial and local regulations regarding the proper disposal of container.

#### 14. TRANSPORT INFORMATION

<b>DOT</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>TDG</b>	Not regulated

#### 15. REGULATORY INFORMATION

##### International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS / ELINCS	ENCS	IECSC	ECL	PICCS	AICS
Anionic/Nonionic Detergent Blend	Y	Y	N	N/A	N	Y	Y	N	Y

"Y" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

"N" indicates that one or more components of the products are not listed or exempt from listing on the inventory administered by the governing country(s).

##### Legend:

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

*DSL - Canadian Domestic Substances List*

*NDSL - Canadian Non-Domestic Substances List*

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

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

*IECSC - Inventory of Existing Chemical Substances in China*

*ECL - Korean Existing Chemicals List*

*PICCS - Philippine Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

##### **Hazardous Products Regulations Information:**

This product has been classified in accordance with the amended *Hazardous Products Act* (HPA) and the Hazard Criteria of the *Hazardous Products Regulations* (HPR), and the SDS contains all the information required by the HPR.

##### **Hazardous Products Act Information:**

Pest control products, as defined in subsection 2(1) of the *Pest Control Products Act* (PCPA), are excluded from the application of the *Hazardous Products Act* (that is, pest control products are exempt from the supplier labelling and SDS requirements of the *Hazardous Products Act* and *Regulations*). This product has voluntarily been classified according to the WHMIS 2015 standard.

##### **Pest Control Products Act Registration Number:** 28225

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

##### **Product Statement**

This chemical is a pest control product registered and regulated by Health Canada's 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. The following is the hazard information required on the pest control product label:

##### **PCPA Label Hazard Communications:**

DANGER - EYE IRRITANT


WARNING - SKIN IRRITANT

WARNING - CONTAINS THE ALLERGEN SOY

POTENTIAL SKIN SENSITIZER

KEEP OUT OF REACH OF CHILDREN

**Difference Between SDS and Pest Control Products Act Label**

Hazardous Information Elements	PCPA	SDS
Signal Word(s)	Danger/Warning	Warning
Pictogram(s)	None	
Hazard statement(s)		
Acute toxicity - Dermal	Causes skin and mucous membrane irritation. DO NOT get on skin.	H315 - Causes skin irritation
Acute toxicity - Oral	NA	May be harmful if swallowed
Acute toxicity - Inhalation	Avoid breathing vapours or spray mist. Avoid working in spray mist.	No adverse effects due to inhalation are expected
Eye irritation	Severely irritating to the eyes. DO NOT get in eyes.	H319 - Causes serious eye irritation
Skin sensitization	Potential skin sensitizer	H317 - May cause an allergic skin reaction

**16. OTHER INFORMATION****NFPA****Health Hazards****Flammability****Instability****Special Hazards**

Not determined

Not determined

Not determined

Not determined

**HMIS****Health Hazards****Flammability****Physical hazards****Personal Protection**

Not determined

Not determined

Not determined

Not determined

**Issue Date:**

13-Dec-2016

**Revision Date:**

05-Mar-2020

**Revision Note:**

Hazardous reclassification and updates to sections 2, 9, 11, 13-15

**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**