

**Safety Data Sheet (SDS)****AU-102**

ADJUVANTS UNLIMITED, LLC

Reference No.:

921120

921121

MSDS Revision Date:

05/01/2015

**1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product Identity**

AU-102

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Intended use**

See Technical Data Sheet

**Application Method**

See Technical Data Sheet

**1.3. Details of the supplier of the safety data sheet****Company Name**

Adjuvants Unlimited, LLC  
 3633 Charles Page Blvd.  
 Tulsa, Ok. 74127

**Emergency****24 hour Emergency Telephone No.**

CHEMTREC (USA) (800) 424-9300

**Customer Service****Adjuvants Unlimited, LLC**

(918) 583-1155

**2. Hazard identification of the product****2.1. Classification of the substance or mixture**

Acute Tox. 4;H302

Harmful if swallowed.

Acute Tox. 5;H313

May be harmful in contact with skin. (Not adopted by US OSHA)

Skin Irrit. 2;H315

Causes skin irritation.

Eye Irrit. 2;H319

Causes serious eye irritation.

Skin Sens. 1;H317

May cause an allergic skin reaction.

**2.2. Label elements**

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

**Warning**

H302 Harmful if swallowed.

H313 May be harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

**[Prevention]:**

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves / eye protection / face protection.

**[Response]:**

P301+P330+312 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor / physician if you feel unwell.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P337+313 If eye irritation persists: Get medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

**[Storage]:**

No GHS storage statements

**[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

### 3. Composition/information on ingredients

This product is labeled with the following GHS Classifications, as it contains substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations. This product is a proprietary blend and the ingredients and mixture percentages are being withheld as a Trade Secret.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Proprietary Blend of Surfactants and Fatty Acid CAS Number: Trade Secret	100	Acute Tox. 4;H302 Acute Tox. 5;H313 Skin Irrit. 2;H315 Eye Irrit. 2;H319 Skin Sens. 1;H317	[1]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

### 4. First aid measures

#### 4.1. Description of first aid measures

**General**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eyes</b>	Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners.
<b>Ingestion</b>	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

<b>Overview</b>	No adverse symptoms or effects anticipated under normal handling conditions See section 2 for further details.
<b>Eyes</b>	Causes serious eye irritation.
<b>Skin</b>	May be harmful in contact with skin. (Not adopted by US OSHA) May cause an allergic skin reaction. Causes skin irritation.
<b>Ingestion</b>	Harmful if swallowed.

## **5. Fire-fighting measures**

### **5.1. Extinguishing media**

Recommended extinguishing media; alcohol resistant foam, CO<sup>2</sup>, powder, water spray. Do not use; water jet.

### **5.2. Special hazards arising from the substance or mixture**

Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.

### **5.3. Advice for fire-fighters**

Evacuate area. Prevent contamination from run-off of adjacent areas, streams, drinking water and sewers. Do not flush down sewers or other drainage systems. Exposed firefighters must wear standard protective equipment and in enclosed areas self-contained breathing apparatus. Use water-spray to cool fire exposed surfaces and personnel

## **6. Accidental release measures**

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

Keep all sources of ignition away from spill/release. In case of a major spill or spillage in a confined space evacuate the area and check vapor levels.

### **6.2. Environmental precautions**

Do not allow spills to enter drains or watercourses.

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

Ventilate the area and avoid breathing vapors or mists. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13). Clean, preferably with a detergent. Do not use solvents. Do not allow spills to enter drains or watercourses. If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Do not get in eyes on skin or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use. Destroy contaminated belts and shoes and other items that cannot be decontaminated.

See section 2 for further details. - [Prevention]:

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in dry, well-ventilated area away from excessive heat and incompatibles.

Incompatible materials: Oxidizing agent, Strong Acids, Strong Bases

See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

See Technical Data Sheet

## 8. Exposure controls and personal protection

### 8.1. Control parameters

#### Exposure

This product contains no ingredients (at greater than 0.1%) that have established limits for exposure under OSHA, ACGIH or NIOSH.

#### Carcinogen Data

This product contains no ingredients (at greater than 0.1%) that are suspected of being or known to be a carcinogen under OSHA, NTP or IARC.

### 8.2. Exposure controls

#### Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

#### Eyes

Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids.

#### Skin

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact.

#### Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

**Other Work Practices** See Technical Data Sheet

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

<b>Appearance</b>	Clear Golden Liquid
<b>Odor</b>	Fatty
<b>Odor threshold</b>	Not Measured
<b>pH</b>	5 - 6 (1% aqueous dilution)
<b>Melting point / freezing point (°C)</b>	Not Measured
<b>Initial boiling point and boiling range (°C)</b>	Not Measured
<b>Flash Point</b>	>93 (C) >200 (F) SETA FLASH CLOSED CUP
<b>Evaporation rate (Ether = 1)</b>	Not Measured
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> Not Measured <b>Upper Explosive Limit:</b> Not Measured
<b>Vapor pressure (Pa)</b>	Not Measured
<b>Vapor Density</b>	Not Measured
<b>Specific Gravity</b>	0.96 @ 20C
<b>Solubility in Water</b>	Dispersible
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature (°C)</b>	Not Measured
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cSt)</b>	Not Measured
<b>VOC %</b>	Not Measured

### 9.2. Other information

DMSO extract by IP346: Less than 3.0 wt % (mineral oil component only)

## 10. Stability and reactivity

### 10.1. Reactivity

Not chemically reactive

### 10.2. Chemical stability

Stable under normal ambient and anticipated conditions of use.

### 10.3. Possibility of hazardous reactions

Hazardous reactions not anticipated.

### 10.4. Conditions to avoid

Extreme heat / open flame / incompatibles

### 10.5. Incompatible materials

Oxidizing agents, Strong Acids, Strong Bases

### 10.6. Hazardous decomposition products

Not anticipated under normal conditions of use.

## 11. Toxicological information

### Acute toxicity

ATE (Acute Toxicity Estimate)

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr
AU-102 (Proprietary Blend)	1000.00 Category: 4	2,500.00 Category: 5	No data available	No data available

Item	Category	Hazard
Acute Toxicity (mouth)	4	Harmful if swallowed.
Acute Toxicity (skin)	5	May be harmful in contact with skin. (Not adopted by US OSHA)
Acute Toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Eye damage/irritation	2	Causes serious eye irritation.
Sensitization (respiratory)	---	Not Applicable
Sensitization (skin)	1	May cause an allergic skin reaction.
Germ toxicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive Toxicity	---	Not Applicable
Specific target organ systemic toxicity (single exposure)	---	Not Applicable
Specific target organ systemic Toxicity (repeated exposure)	---	Not Applicable
Aspiration hazard	---	Not Applicable

## 12. Ecological information

### 12.1. Toxicity

Ecotoxicity studies have not been conducted on this preparation. If this product contains ingredients in concentrations high enough to make this product toxic to the aquatic environment, this will be indicated by its GHS classification.

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

**12.6. Other adverse effects**

No data available

**13. Disposal considerations**

**13.1. Waste treatment methods**

Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

Dispose of contents in accordance with local and national regulations.

**14. Transport information**

<b>DOT Proper shipping name</b>	Not Regulated
<b>DOT Hazard Class</b>	Not Applicable
<b>DOT Packing group</b>	Not Applicable
<b>DOT Label</b>	None
<b>IMDG Proper Shipping Name</b>	Not Regulated
<b>IMDG Hazard Class</b>	Not Applicable
<b>IMDG Packing Group</b>	Not Applicable
<b>IMDG</b>	Marine Pollutant: no
<b>ICAO/IATA</b>	See bill of lading

**15. Regulatory information**

<b>Regulatory Overview</b>	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
<b>Toxic Substance Control Act ( TSCA)</b>	All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.
<b>WHMIS Classification</b>	D2B
<b>US EPA Tier II Hazards</b>	<p style="text-align: right;"><b>Fire:</b> No</p> <p style="text-align: right;"><b>Sudden Release of Pressure:</b> No</p> <p style="text-align: right;"><b>Reactive:</b> No</p> <p style="text-align: right;"><b>Immediate (Acute):</b> Yes</p> <p style="text-align: right;"><b>Delayed (Chronic):</b> No</p>

**EPCRA 311/312 Chemicals and RQs (>0.1%):**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 302 Extremely Hazardous (>0.1%):**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**

1,4-dioxane

Anthracenedione

Oxirane

**Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

Oxirane

**Proposition 65 - Male Repro Toxins (>0.0%):**

Oxirane

**New Jersey RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Pennsylvania RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

## 16. Other information

DISCLAIMER: The information in this Safety Data Sheet is provided in good faith and believed to be accurate as of the date issued. It pertains only to the product as shipped by Adjuvants Unlimited, LLC. ADJUVANT UNLIMITED, LLC MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. It is the responsibility of the recipient and /or user of the product to study this Safety Data Sheet and to understand the information contained herein and any hazards associated with the product. Regulatory requirements are subject to change and may differ by jurisdiction. Therefore, it is the responsibility of the recipient and/or user of the product to insure that its activities comply with all federal and state laws. Adjuvants Unlimited, LLC assumes no responsibility for injury to the recipient and /or user or to any third party, or for damage to property.

End of Document