



## Anionic Polyacrylamide Emulsion

### 1 Identification

#### GHS Product Identifier

#### Product Name(s)

ACX 7319

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

Friction reducer, oil well stimulation

#### Supplier's details

Aspen Chemicals, LLC  
23603 N Highway 288 Angleton, TX 77515  
E-mail:  
Tel. +1

#### Emergency Phone Number

CHEMTREC: +1 800 424 9300

### 2 Hazard(s) Identification

#### Classification of the substance or mixture

Eye irritation; Category 2; Causes eye irritation.

#### GHS label elements

Warning



H319 Causes serious eye irritation

P264 Wash hands thoroughly after handling.

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

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

P337 + P313 If eye irritation persists: Get medical advice/attention.

#### Other hazards which do not result in classification

Advice: Product is very slippery when spilled.

### 3 Composition/information on ingredients

#### Substances / Mixtures

Chemical Nature: Anionic polyacrylamide in water in oil emulsion

Description	CAS Number	Concentration %
distillates (petroleum) hydrotreated light	64742-47-8	15 - 28
Alcohols, C12-16 Ethoxylated	68551-12-2	0 - 5
Ammonium Chloride	12125-02-09	1 - 9

#### Further information

Ammonium Chloride is not a GHS hazardous component in this product. It is listed because Ammonium Chloride is an EPA Reportable Quantity (RQ) spill hazard substance. See section 14 and 15.

### 4 First-aid measures

#### Description of necessary first-aid measures

**Inhalation** Move to fresh air. If breathing is difficult, contact a physician or poison control center. If symptoms persist, call a physician.

**Eye contact** Wash eyes immediately with clean water. Wash under the eyelids. Wash for 15 minutes and contact physician.

**Skin contact** Take off contaminated clothing and shoes. Wash skin thoroughly with water. Wash contaminated clothing before reuse. In case of persistent irritation, call a physician.

**Ingestion** Call a poison center or doctor immediately. Do not induce vomiting unless directed to do so by a physician or by the poison center. Do not administer any food or oral medication to an unconscious person.

#### Most important symptoms/effects, acute and delayed

No information

#### Indication of immediate medical attention and special treatment needed, if necessary

Treatment: All treatments should be based on observed signs and symptoms of distress in the patient.

### 5 Fire-fighting measures

#### Suitable extinguishing media

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Water Spray, Carbon dioxide (CO<sub>2</sub>), Alcohol-resistant foam, Dry chemical

### **Specific hazards arising from the chemical**

Potential for small amounts of Hazardous Combustion Product

When heated to decomposition, nitrogen oxide, hydrogen chloride gas, and/or ammonia gas may be produced.

### **Special protective actions for fire-fighters**

Wear self-contained breathing apparatus and protective suit. Use NIOSH/MSHA approved respiratory protection.

### **Further information**

Cool containers/tanks with water spray.

## **6 Accidental release measures**

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

Where the exposure level is not known, wear approved, positive pressure, self-contained respirator.

Where exposure level is known, wear approved respirator suitable for the level exposure.

For personal protection, see SDS Section 8.

Wear chemical-resistant boots.

### **Environmental precautions**

Avoid discharge or spilling into the environment. Prevent product from entering storm drains and waterways.

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

Sweep up to prevent slipping hazard. Soak up with inert material (e.g. sand, silica gel, universal binder, acid binder, sawdust, diatomaceous earth, or vermiculite).

Shovel into suitable container for disposal. After cleaning, flush away traces with water. Use detergent if needed.

## **7 Handling and storage**

### **Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin, eyes and clothing. Wash thoroughly after handling.

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

Store at room temperature. To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.

Avoid contact with strong oxidizing agents.

## 8 Exposure controls/personal protection

### Control parameters

Components with workplace control parameters:

Components	CAS No.	Form of exposure	Control Parameters
distillated (petroleum) hydrotreated light	64742-47-8	Vapors	197 ppm; 1200 mg / m <sup>3</sup>

### Appropriate engineering controls

Dose and handle in closed systems whenever possible. Handle only in a place equipped with local exhaust (or other appropriate exhausts). Remove and wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before breaks, consumption of food or drink, and immediately after handling the product.

### Individual protection measures

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

### Hand protection

Use chemical-resistant gloves. Please follow instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Take into consideration the specific local conditions under which the product is used, such as danger of cuts, abrasion and the contact time. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

### Skin and body protection

Protective clothing

### Eye protection

Suitable safety goggles or face shield

### Environmental exposure controls

No information available.

## 9 Physical and chemical properties

### Physical and chemical properties

Physical state	thick liquid
Color	white to pale yellow
Odor	mild petroleum odor
pH	6 - 8
Freezing point	≤ -5 °C / 23 °F
Pour point	≤ 0 °C / 32 °F
Flash point	≥ 94 °C / 201 °F (closed up)
Evaporation rate	< 1 ( n-butyl acetate = 1)
Explosive properties:	
Lower explosion limit	no information available
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<b>Upper explosion limit</b>	no information available
<b>Vapor pressure</b>	10 (< 77 °F)
<b>Density</b>	0.7 - 1.4 g / cm <sup>3</sup>
<b>Bulk density</b>	8.5 - 9.2 lb / gal
<b>Solubility</b>	
<b>Water</b>	dispersible
<b>Partition coefficient:</b>	
<b>n-octanol/ water</b>	not applicable
<b>Decomposition temperature</b>	no information available
<b>Oxidizing potential</b>	this substance is not classified as oxidizing
<b>Saturation in air (% vol)</b>	no information available
<b>Surface tension</b>	no information available

## 10 Stability and reactivity

### Reactivity

Stable under recommended storage conditions.

### Chemical stability

No decomposition if stored and applied as directed.

### Possibility of hazardous reactions

No hazardous polymerization reactions occur.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

Strong oxidizing agents.

**Ammonium ion:** Avoid contact with alkaline substances and nitrites.

### Hazardous decomposition products

Thermal decomposition can lead to the formation of the following products:

Carbon oxides.

Ammonia.

Nitrogen oxides (NO<sub>x</sub>).

SO<sub>2</sub> and SO<sub>3</sub>.

## 11 Toxicological information

### Toxicological (health) effects

<b>Acute oral toxicity</b>	Remarks: estimated. Rat: > 5000 mg/kg LD50.
<b>Acute oral toxicity</b>	Distillates (petroleum) hydrotreated light: Rat: > 5000 mg/kg LD50. Remarks: estimated. LC50 Rat, 4h, > 20 mg/kg.
<b>Acute inhalation toxicity</b>	Distillates (petroleum) hydrotreated light: LC50 Rat, 4h, > 5.2 gm/L.
<b>Acute inhalation toxicity</b>	Distillates (petroleum) hydrotreated light: LC50 Rat, 4h, > 5.2 gm/L.
<b>Acute dermal toxicity</b>	Remarks: estimated. LD50 Rabbit, > 2000 mg/kg.

<b>Acute dermal toxicity</b>	Distillates (petroleum) hydrotreated light: LD50 Rabbit, > 2000 mg/kg.
<b>Skin corrosion / irritation</b>	Remarks: toxicological data taken from products / mixtures with similar composition. Irritating to skin.
<b>Eye damage irritation</b>	Remarks: toxicological data taken from products / mixtures with similar composition. Causes eye irritation.
<b>Skin sensitization</b>	Based on available data; the classification criteria are not met.
<b>Skin sensitization</b>	Distillates (petroleum) hydrotreated light: The product is not classified as sensitizer.
<b>Germ cell mutagenicity</b>	
<b>Genotoxicity in vitro</b>	Distillates (petroleum) hydrotreated light: no known effect.
<b>Genotoxicity in vivo</b>	Distillates (petroleum) hydrotreated light: not mutagenic.
<b>Carcinogenicity</b>	Distillates (petroleum) hydrotreated light: not classified by IARC or NTP.
<b>Reproductive toxicity</b>	Distillates (petroleum) hydrotreated light: does not show teratogenic effects in animal experiments.

## 12 Ecological information

### Ecotoxicity effects

#### Aquatic toxicity

LC50/96 h/Danio rerio (zebra fish)/OECD Test Guideline 203: > 100 mg/l

Remarks: Information given is based on data obtained from similar substances.

EC50/48 h/Daphnia magna (Water flea)/Immobilization/OECD Test Guideline 202: > 100 mg/l

Remarks: Information given is based on data obtained from similar substances.

IC50/72 h/Green algae (Selenastrum capricornutum)/Growth inhibition/OECD Test Guideline 201:  
> 100  
mg/l

Remarks: Information given is based on data obtained from similar substances.

#### Toxicity to other organisms

No data available

#### Persistence and degradability

Biological degradability:

Modified Sturm Test/OECD Test Guideline 301B:

The polymeric ingredient is not readily biodegradable.

Seawater Shake Flask Method/OECD Test Guideline 306/28 d: 13 %

#### Bioaccumulative potential

Because of the high molecular weight of the polymer diffusion through biological membranes is very small. Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water: Not applicable

#### Mobility in soil

Water solubility: Limited by viscosity.

Surface tension: No data available

## 13 Disposal considerations

### Disposal methods

**Product:** Recycling and reuse of the product is advisable, if permitted by existing regulations. If recycling is not feasible, dispose of the product in compliance with local regulations.

**Contaminated packaging (drums, containers, etc.):** Clean thoroughly with running water. Afterwards it can be reused. If the packaging cannot be cleaned properly, it must be disposed of, similarly to the method used to dispose of unused product.

## 14 Transport information

DOT	(LAND)	Not classified as dangerous with regard to transportation regulations.
IMDG	(SEA)	Not classified as dangerous with regard to transportation regulations.
ICAO/IATA	(AIR)	Not classified as dangerous with regard to transportation regulations.

### Special precautions for user

DOT/CFR: Product contains US EPA CERCLA and CWA Hazardous Substance: Ammonium Chloride (CAS: 12125-02-9) having a Reportable Quantity (RQ) of 5000 pounds; (refer to SDS section 3 for amount in product to determine if spilled quantity of product exceeds the Reportable Quantity (RQ) triggering EPA Spill Incident Notification). Hazardous Substances/Reportable Quantities - DOT requirements specific to Hazardous Substances only apply if the quantity in one package equals or exceeds the reportable quantity.

Refer to section 3, Composition, to determine if RQ will apply.

## 15 Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### SARA Title III Section 311 Categories

Immediate (Acute) Health Effects: YES.

Delayed (Chronic) Health Effects: NO.

Fire Hazard: NO.

Sudden Release of Pressure Hazard: NO.

Reactivity Hazard: NO.

#### US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.659 - Supplier Notification Required)

While this product does not contain any component CAS number directly listed under SARA 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (EPCRA), it does contain ammonia chemical(s) that may be source per EPA of aqueous ammonia, a reportable chemical.

A list of such chemical(s) present in concentrations greater than 1 % is reported below. Please refer to EPA Guidance for Reporting Aqueous Ammonia, EPA 745-R-00-005.

Ammonium chloride (12125-02-9)

ACGIH American conference of governmental industrial hygienist's threshold limit value (TLV) Substances

#### California Proposition 65

Acrylamide (CAS N. 79-06-1) < 0.05 %

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Remarks: This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproduction harm.

**Notification Status**

All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.

All components of this product are included in the United States TSCA Chemical Inventory or are not required to be listed on the United States TSCA Chemical Inventory.

All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL).

**16 Other information****HMIS RATING:**

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

**NFPA RATING:**

HEALTH: 2

FIRE: 1

REACTIVITY: 0

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.

This SDS is prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI SDS Standard (Z400.1). Product regulations and the SDS contain all the information required by the Controlled Product Regulation.