

# Materials Safety Data Sheet

## SECTION 1: Identification of the substance and the company information

**Name:** 2-Acrylamido-2-methylpropanesulfonic acid 98% (Titr.)

**Synonym:** 2-Methyl-2-[(1-oxo-2-propenyl) amino]-1-Propanesulfonic Acid; ATBS

**CAS#** 15214-89-8; **EC#** 239-268-0

**Usages:** in oil field, spin, papermaking, water treatment, synthetic fiber, plastic etc.

**Supplier Name:** Shouguang City Songchuan Industrial Additives Co.,Ltd.

**Add:** Daokou Industrial Park, Yingli Town, Shouguang City, Shandong, China

**Tel:** 86-536-8566636

**Fax:** 86-536-8566636

**Emergency call:** 86-536-8566636(Available outside office hours)

## SECTION2: Composition/information on ingredients

CAS#	Chemical Name	content	EINECS#
15214-89-8	2-Acrylamido-2-methylpropanesulfonic a	98	239-268-0

Hazard Symbols: C

Risk Phrases: 21/22 34

## SECTION 3 - HAZARDS IDENTIFICATION

The substance is classified according to 67/548/EEC and REGULATION (EC) No 1272/2008.

67/548/EEC	
Hazards characteristics	R-Phrases
Xn	R20/22
Xi	R41
Xi	R37

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Acute Tox. 4	H302
Acute Tox. 4	H332
Eye Dam. 1	H318
STOT SE 3	H335

For full text of H-phrases and R- phrases: see section 16.

### EMERGENCY OVERVIEW:

Harmful in contact with skin and if swallowed. Causes burns.

Hygroscopic (absorbs moisture from the air).Corrosive.

### Potential Health Effects

Eye: Causes eye burns. May cause chemical conjunctivitis and corneal damage.

Skin: Harmful if absorbed through the skin. Causes skin burns. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.

Ingestion: Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. The toxicological properties of this substance have not been fully investigated. May cause systemic effects.

Inhalation: Causes chemical burns to the respiratory tract. The toxicological properties of this substance have not been fully investigated.

Aspiration may lead to pulmonary edema. May cause systemic effects.  
Chronic: No information found.

#### **SECTION 4 - FIRST AID MEASURES**

Eyes: Get medical aid. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).

Skin:

Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician:

#### **SECTION 5 - FIRE FIGHTING MEASURES**

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use foam, dry chemical, or carbon dioxide.

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

#### **SECTION 7 - HANDLING and STORAGE**

Handling:

Wash thoroughly after handling. Use with adequate ventilation.

Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Discard contaminated shoes.

Storage:

Store in a tightly closed container. Keep refrigerated. Store protected from moisture.

#### **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 15214-89-8: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Powder

Color: white

Odor: none reported

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 195 deg C

Autoignition Temperature: Not applicable.

Flash Point: 160 deg C (320.00 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: > 195 deg C

Solubility in water: 1500g/l (25 c)

Specific Gravity/Density: 1.4500g/cm<sup>3</sup>

Molecular Formula: C<sub>7</sub>H<sub>13</sub>NO<sub>4</sub>S

Molecular Weight: 207.25

## **SECTION 10 - STABILITY AND REACTIVITY**

Chemical Stability:

Stable under normal temperatures and pressures. Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid:

Dust generation, excess heat, exposure to moist air or water.

Incompatibilities with Other Materials:

Strong oxidizing agents, strong bases.

Hazardous Decomposition Products:

Carbon monoxide, oxides of nitrogen, oxides of sulfur, carbon dioxide.

Hazardous Polymerization: May occur.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

RTECS#:

CAS# 15214-89-8: TZ6658000 LD50/LC50:

CAS# 15214-89-8: Oral, rat: LD50 = 5400 mg/kg.

Carcinogenicity:

2-Acrylamido-2-methylpropanesulfonic acid - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

## SECTION 12 - ECOLOGICAL INFORMATION

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
LC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	96h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Bioaccumulative potential: No data available.

Mobility in soil: Not available.

Results of PBT&vPvB assessment: Not applicable.

Other adverse effects: Not applicable.

## SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods: Avoid discharge into the environment. This material and its container must be disposed of as hazardous waste. According to local regulations, Federal and official regulations.

Product / Packaging disposal:

If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

## SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

Hazard Class: 8

UN Number: 3261

Packing Group: II

IMO

Shipping Name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.NOS

Hazard Class: 8

UN Number: 3261

Packing Group: II

RID/ADR

Shipping Name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

Hazard Class: 8

UN Number: 3261

Packing group: II

## SECTION 15 - REGULATORY INFORMATION

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

Relevant information regarding authorization: No information available

Relevant information regarding restriction: No information available

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 21/22 Harmful in contact with skin and if swallowed.

R 34 Causes burns.

Safety Phrases:

S 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible).

WGK (Water Danger/Protection)

CAS# 15214-89-8: No information available.

Canada

CAS# 15214-89-8 is listed on Canada's DSL List.

CAS# 15214-89-8 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 15214-89-8 is listed on the TSCA inventory.

## **SECTION 16 - ADDITIONAL INFORMATION**

Relevant H- phrases:

H302: Harmful if swallowed.

H332: Harmful if inhaled.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash thoroughly after handling.

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

P271: Use only outdoors or in a well-ventilated area.

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

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

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

P310: Immediately call a POISON CENTER or doctor/physician.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P330: Rinse mouth

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501 Dispose of contents/container to local/regional/national/ international regulation (to be specified)

Relevant R- phrases (number and full text):

R20/22 Harmful by inhalation and if swallowed.

R37: Irritating to respiratory system.

R41: Risk of serious damage to the eyes.

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.