

Safety Data Sheet

acc. to OSHA HCS

Printing date 25/10/2024

Reviewed on 25/10/2024

1 Identification

- **Trade name:** ATBS (Grades – 2401, 2404, 2406)
Chemical Name : 2-acrylamido-2-methylpropanesulphonicacid · **CAS Number:** 15214-89-8
- **EC number:** 239-268-0
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
AMPS is an important monomer. Its copolymers or homopolymers with different molecular weight can be widely used in textile, oil drilling, water treatment, papermaking, dyeing, coating, cosmetics, electronics, etc
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Vinati Organics Limited
Parinee Crescenzo, 11th floor, 1102, "G" Block,
Plot no. C-38 & C-39, Bandra-Kurla Complex,
Bandra (East) Mumbai -51,
Maharashtra, India
- **Information department:**
Mr. Prashant PAWAR
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Email: prashant.pawar@vinatiorganics.com
- **Emergency telephone number:**
Contact details of importer
Emergency telephone number:
Telephone number of importer:
Opening hours:
Other Comments (e.g. language(s) of the phone service): English

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

STOT SE 3 H335 May cause respiratory irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:** Not applicable.

• Label elements

• Labelling according to EU guidelines:

The product has been classified and marked in accordance with directives on hazardous materials.

• Safety phrases:

Keep out of the reach of children.

Avoid contact with eyes.

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

Wear eye/face protection.

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
15214-89-8 2-acrylamido-2-methylpropanesulphonic acid
- **Identification number(s)**
- **EC number:** 239-268-0
- **Additional information:**
Molecular Formula: C₇H₁₃NO₄S
Molecular Weight: 207.25
- **Impurities and stabilizing additives:** Acrylamide and acrylonitrile content <0.1%.

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident
- **After inhalation:**
If the victim is not breathing, perform mouth-to-mouth resuscitation. Get immediate medical attention.
- **After skin contact:**
Get medical attention in case of persistent irritation.
Wash clothing before reuse. Thoroughly clean shoes before reuse.
- **After eye contact:**
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
Cold water may be used. Get medical attention
- **After swallowing:**
Do not induce vomiting unless directed to do so by medical personnel.
Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get immediate medical attention
- **Most important symptoms and effects, both acute and delayed**
Coughing, shortness of breath and delayed lung edema. Causes chemical burns to the respiratory tract. Causes skin burns. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color. Causes eye burns. May cause chemical conjunctivitis and corneal damage.
May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause perforation of the digestive tract.
- **Information for doctor:** Treat symptomatically

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- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Flood with water.
- **Special hazards arising from the substance or mixture** Dust from this product is explosive.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Material will not burn.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
Keep persons away and upwind from spill.
- **Environmental precautions:** Prevent entry into sewers and waterways.
- **Methods and material for containment and cleaning up:**
Pick up free solid for recycle and/or disposal.
Use appropriate tools to place the spilled solid in a convenient waste disposal container. Avoid raising dust.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling**
Open container in a well ventilated area.
Avoid creating or breathing dusts.
Wear full PPE to avoid getting in eyes, on skin or on clothing.
Maintain good housekeeping practices. Wash thoroughly after handling.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool, dry, well-ventilated area away from incompatible substances.
- **Information about storage in one common storage facility:**
Keep away from moisture and incompatible material such as alkalis.
- **Further information about storage conditions:**
Keep container tightly sealed.
Protect from contamination.
- **Specific end use(s)**
AMPS is an important monomer. Its copolymers or homopolymers with different molecular weight can be widely used in textile, oil drilling, water treatment, papermaking, dyeing, coating, cosmetics, electronics, etc

8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes.
- **Breathing equipment:**
 Always wear NIOSH approved respiratory protective equipment when vapor or mists may exceed applicable concentration limits.
- **Protection of hands:**



Protective gloves

- **Material of gloves**
 Full contact:
 Glove material: Nitrile rubber
 Glove thickness: 0.11 mm

 Splash contact:
 Glove material: Nitrile rubber
 Glove thickness: 0.11 mm
- **Penetration time of glove material**
 Full contact and splash contact: Recommended break through time: >480 min
- **Eye protection:**



Tightly sealed goggles

- **Body protection:**
 Apron
 Boots

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Powder
Color:	White
Odor:	Mild
- **pH-value:** Not available
- **Change in condition**

Melting point/Melting range:	approx. 190 °C (approx. 374 °F) (EU Method A.1)
Boiling point/Boiling range:	Decomposes
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Product is not flammable.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Vapor pressure at 25 °C (77 °F):** 4.4 x 10⁻⁷ Pa (EU Method A.4)

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· Density at 20 °C (68 °F):	1.36 g/cm ³ (11.349 lbs/gal) (EU Method A.3)
· Solubility in / Miscibility with Water at 20 °C (68 °F):	>500 g/l (EU Method A.6)
· Partition coefficient (n-octanol/water) at 20 °C (68 °F):	< -3.7 log POW (EU Method A.8)
· Viscosity:	
Dynamic:	Not applicable.
· Other information	Unstable in methanol and ethanol

10 Stability and reactivity

- **Reactivity**
- **Chemical stability** Product is stable under normal conditions of handling and use.
- **Possibility of hazardous reactions**
Dust generation, incompatible materials, spontaneous polymerization does not readily occur
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Oxidizing agents and alkalis
- **Hazardous decomposition products:**
Carbon monoxide, oxides of nitrogen, oxides of sulfur, irritating and toxic fumes and gases, carbon dioxide.
- **Additional information:** Not available

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
 - **LD/LC50 values that are relevant for classification:**
Quantitative data on inhalation toxicological effect of this product are not available
- | | | |
|------|------|--|
| Oral | LD50 | 1830 mg/kg bw (rat (Wistar) male) (acute toxic class method) |
|------|------|--|
- **Primary irritant effect:**
 - **On the skin:** The product is found to be non-irritating to skin when exposed to New Zealand white Rabbits.
 - **On the eye:**
Eye irritation:
Method: EPA OPPTS 870.2400 (Acute Eye Irritation)
Species: rabbit (New Zealand White)
Result: Irritating effect
 - **Sensitization:** No sensitizing effects known.
 - **Other information (about experimental toxicology):**
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion Harmful if swallowed.
 - **Subacute to chronic toxicity:**
Specific target organ toxicity-single exposure (STOT-SE):
The product may cause respiratory irritation
 - **Additional toxicological information:** The product is expected to be toxic by inhalation route
 - **Carcinogenic categories**
 - **IARC (International Agency for Research on Cancer)** Substance is not listed.
 - **NTP (National Toxicology Program)** Substance is not listed.
 - **OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.

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12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

EC0 (48hr) and EC50 (48hr)	78 mg/L and 340 mg/L (<i>Daphnia magna</i>) (EPA-660/3-75-009)
LC0 (96 h), LC50 (96 h) and LC50 (72 h)	130 mg/L, 170mg/L and 170 mg/L (<i>Lepomis macrochirus</i>) (EPA-660/3-75-009)
NOEC (3h)	1000 mg/L (activated sludge, domestic) (OECD Guideline 209 (Activated Sludge, Respiration))
NOEC and IC50 (RA 58374-69-9) (static)	2000 mg/L and > 2000 mg/L (<i>Selenastrum capricornutum</i> (Algae)) (OECD Guideline 201 (Alga, Growth Inhibition Test))

- **Persistence and degradability**

Substance is poorly degradable in water and there is no potential for emissions to soil

- **Bioaccumulative potential**

Emissions to water and sediment are not expected. The substance has a low potential for bioaccumulation ($\log K_{ow} < -3$) and direct and indirect exposure of the aquatic compartment is unlikely.

- **Mobility in soil**

Emissions to water and sediment are not expected. Based on its low octanol-water partition coefficient the substance can be expected to have a low potential for adsorption.

- **Additional ecological information:**

- **General notes:** Do not allow product to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Waste should be considered to be hazardous. Dispose in compliance with local, regional and national regulations.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Not available

14 Transport information

- **UN-Number**

- **DOT, ADR, ADN, IMDG, IATA** Not applicable

- **UN proper shipping name**

- **DOT, ADN, IMDG, IATA** Not applicable

- **ADR** Not applicable

- **Transport hazard class(es)**

- **DOT, ADR, ADN, IMDG, IATA**

- **Class** Not applicable

- **Packing group**

- **DOT, ADR, IMDG, IATA** Not applicable

- **Environmental hazards:**

Not applicable.

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- | | |
|--|--|
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · DOT | |
| · Quantity limitations | On passenger aircraft/rail: No limit
On cargo aircraft only: No limit |
| · UN "Model Regulation": | Not applicable |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):** Substance is not listed.
- **Section 313 (Specific toxic chemical listings):** Substance is not listed.
- **TSCA (Toxic Substances Control Act):** Substance is listed.
- **Proposition 65**
- **Chemicals known to cause cancer:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
- **Chemicals known to cause developmental toxicity:** Substance is not listed.
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)** Substance is not listed.
- **TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
- **Product related hazard information:**
The product has been classified and marked in accordance with directives on hazardous materials.
- **Risk phrases:** Please refer section 2
- **Safety phrases:**
Keep out of the reach of children.
Avoid contact with eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear eye/face protection.
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
EU - Listed
Canada-DSL/NDSL –Listed
China-NEPA (IECSC) – Listed
Japan-MITI – Listed
Philippines-PICCS –Listed
New Zealand (NZIoC) – Not Listed
Australia-AICS –Listed

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department.

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· Date of preparation / last revision 25.10.2024 (Added trade name with grades)
· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organisation
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Acute Tox. 4: Acute toxicity, Hazard Category 4
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· Sources

Occupational Safety & Health Administration (OSHA)
<https://www.osha.gov/Publications/OSHA3514.html>
 ECHA-Registered dossier
<http://apps.echa.europa.eu/registered/data/dossiers/DISS-9e9ddb09-ed1b-15e1-e044-00144f67d031/AGGR-8bc28fb0-f5c1-472c-9067-57a9d3d1953f>
[DISS-9e9ddb09-ed1b-15e1-e044-00144f67d031.html](http://apps.echa.europa.eu/registered/data/dossiers/DISS-9e9ddb09-ed1b-15e1-e044-00144f67d031/AGGR-8bc28fb0-f5c1-472c-9067-57a9d3d1953f)
[AGGR-8bc28fb0-f5c1-472c-9067-57a9d3d1953f](http://apps.echa.europa.eu/registered/data/dossiers/DISS-9e9ddb09-ed1b-15e1-e044-00144f67d031/AGGR-8bc28fb0-f5c1-472c-9067-57a9d3d1953f)

· * Data compared to the previous version altered.

Section 1: Identification of substance and company
 Section 2: Hazard identification
 Section 3: Composition /information on ingredient
 Section 4: First-aid measures.
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 Section 6: Accidental Release measures
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 Section 9: Physical and Chemical properties.
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