

### 1. Identification

|                             |  |                     |  |
|-----------------------------|--|---------------------|--|
| <b>Product Name</b>         | : Tranexamic acid                                  | <b>Company Name</b> | : Ases Chemical Works                                |
| <b>CAS No</b>               | : 1197-18-8  | <b>Address</b>      | : Brahm Bagh, Jalori Gate,<br>Jodhpur-342001 (India) |
| <b>Synonyms</b>             | : trans-4-(Aminomethyl)cyclohexane carboxylic acid | <b>Phone</b>        | : +91-291-2635041                                    |
| <b>Recommended Use</b>      | : Laboratory chemicals.                            | <b>Whats App</b>    | : +91-9636889954                                     |
| <b>Uses advised against</b> | : Food, drug, pesticide or biocidal product use.   | <b>Web</b>          | : www.ases.in  |
|                             |  | <b>e-mail</b>       | : ecom@ases.in                                       |

### 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|  |                     |
|--|---------------------|
| Skin Corrosion/Irritation                        | Category 2          |
| Serious Eye Damage/Eye Irritation                | Category 2          |
| Specific target organ toxicity (single exposure) | Category 3          |
| Target Organs                                    | Respiratory system. |

#### Label Elements

**Signal Word** : Warning

**Hazard Statements** : Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation

#### Precautionary Statements

|                   |  |
|-------------------|--|
| <b>Prevention</b> | : Wash face, hands and any exposed skin thoroughly after handling<br>: Wear protective gloves/protective clothing/eye protection/face protection<br>: Avoid breathing dust/fume/gas/mist/vapors/spray and use only outdoors or in a well-ventilated area |
| <b>Inhalation</b> | : IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing<br>: Call a POISON CENTER or doctor/physician if you feel unwell  |
| <b>Skin</b>       | : IF ON SKIN- Wash with plenty of soap and water<br>: If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse  |
| <b>Eyes:</b>      | : IF IN EYES- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.<br>: If eye irritation persists- Get medical advice/attention   |
| <b>Storage</b>    | : Store in a well-ventilated place. Keep container tightly closed. Store locked up   |
| <b>Disposal</b>   | : Dispose of contents/container to an approved waste disposal plant  |

### 3. Composition/Information on Ingredients

| Component       | CAS No    | Weight % |
|-----------------|-----------|----------|
| Tranexamic acid | 1197-18-8 | >95      |

### 4. First-aid measures

|                           |   |
|---------------------------|---|
| <b>General Advice</b>     | : If symptoms persist, call a physician.  |
| <b>Eye Contact</b>        | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Skin Contact</b>       | : Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. |
| <b>Inhalation</b>         | : Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.      |
| <b>Ingestion</b>          | : Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.             |
| <b>Notes to Physician</b> | : Treat symptomatically   |

## 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable Extinguishing Media</b>                          | : Water spray. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Chemical foam.                       |
| <b>Unsuitable Extinguishing Media</b>                        | : No information available   |
| <b>Flash Point</b>   | : No information available   |
| <b>Method</b>  | : No information available   |
| <b>Autoignition Temperature</b>                              | : No information available   |
| <b>Explosion Limits:</b>                                     |  |
| <b>Upper</b>   | : No data available  |
| <b>Lower</b>   | : No data available  |
| <b>Sensitivity to Mechanical Impact</b>                      | : No information available   |
| <b>Sensitivity to Static Discharge</b>                       | : No information available   |
| <b>Specific Hazards Arising from the Chemical</b>            | : Keep product and empty container away from heat and sources of ignition.                           |
| <b>Hazardous Combustion Products</b>                         | : Nitrogen oxides (NO <sub>x</sub> ). Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).       |
| <b>Protective Equipment and Precautions for Firefighters</b> | : As in any fire, wear self-contained breathing apparatus pressure-demand, and full protective gear. |

## 6. Accidental release measures

|   |  |
|---|--|
| <b>Personal Precautions</b>                   | : Ensure adequate ventilation. Use protective equipment as required. Avoid dust formation. |
| <b>Environmental Precautions</b>              | : Should not be released into the environment.   |
| <b>Methods for Containment &amp; Clean Up</b> | : Keep in suitable, closed containers for disposal.  |

## 7. Handling and storage

|                 |   |
|-----------------|---|
| <b>Handling</b> | : Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. |
| <b>Storage</b>  | : Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Strong oxidizing agents.  |

## 8. Exposure controls / personal protection

|                                      |   |
|--------------------------------------|---|
| <b>Exposure Guidelines</b>           | : This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.                               |
| <b>Engineering Measures</b>          | : Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.                           |
| <b>Personal Protective Equipment</b> |   |
| <b>Eye/face Protection</b>           | : 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. |
| <b>Skin and body protection</b>      | : Wear appropriate protective gloves and clothing to prevent skin exposure.   |
| <b>Respiratory Protection</b>        | : No protective equipment is needed under normal use conditions.  |
| <b>Hygiene Measures</b>              | : Handle in accordance with good industrial hygiene and safety practice.  |

## 9. Physical and chemical properties

|                                 |                            |                                  |  |
|---------------------------------|----------------------------|----------------------------------|--|
| <b>Physical State</b>           | : Powder Solid             | <b>Flammability limit Lower</b>  | : No data available                              |
| <b>Appearance</b>               | : White                    | <b>Vapor Pressure</b>            | : No information available                       |
| <b>Odor</b>                     | : Odorless                 | <b>Vapor Density</b>             | : Not applicable                                 |
| <b>Odor Threshold</b>           | : No information available | <b>Specific Gravity</b>          | : No information available                       |
| <b>pH</b>                       | : 6.5-8.0 5% aq. solution  | <b>Solubility</b>                | : Soluble in water                               |
| <b>Melting Point/Range</b>      | : > 300 °C / 572 °F        | <b>Partition coefficient</b>     | : No data available                              |
| <b>Boiling Point/Range</b>      | : No information available | <b>Autoignition Temperature</b>  | : No information available                       |
| <b>Flash Point</b>              | : No information available | <b>Decomposition Temperature</b> | : No information available                       |
| <b>Evaporation Rate</b>         | : Not applicable           | <b>Viscosity</b>                 | : Not applicable                                 |
| <b>Flammability (solid,gas)</b> | : No information available | <b>Molecular Formula</b>         | : C <sub>8</sub> H <sub>15</sub> NO <sub>2</sub> |
| <b>Flammability limit Upper</b> | : No data available        | <b>Molecular Weight</b>          | : 157.21   |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactive Hazard</b>                  | : None known, based on information available                        |
| <b>Stability</b>                        | : Stable under normal conditions.                                   |
| <b>Conditions to Avoid</b>              | : Incompatible products.  |
| <b>Incompatible Materials</b>           | : Strong oxidizing agents   |
| <b>Hazardous Decomposition Products</b> | : Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2) |
| <b>Hazardous Polymerization</b>         | : Hazardous polymerization does not occur.                          |
| <b>Hazardous Reactions</b>              | : None under normal processing.                                     |

## 11. Toxicological information

### Acute Toxicity

**Product/ Component Information** : No acute toxicity information is available for this product

**Toxicologically Synergistic Products** : No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation** : No information available

**Sensitization** : No information available

**Carcinogenicity** : The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component       | CAS No    | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-----------------|-----------|------------|------------|------------|------------|------------|
| Tranexamic acid | 1197-18-8 | Not listed | Not listed | Not listed | Not listed | Not listed |

**Mutagenic Effects** : No information available

**STOT - repeated exposure** : None known

**Reproductive Effects** : No information available.

**Aspiration hazard** : No information available

**Developmental Effects** : No information available.

**Symptoms/effects, acute & delayed** : No information available

**Teratogenicity** : No information available.

**Endocrine Disruptor Information** : No information available

**STOT - single exposure** : Respiratory system

## 12. Ecological information

**Ecotoxicity** : Do not empty into drains.

**Persistence and Degradability** : Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** : No information available.

**Mobility** : Will likely be mobile in the environment due to its water solubility.

## 13. Disposal considerations

**Waste Disposal Methods** : Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

**DOT** Not regulated

**IATA** Not regulated

**TDG** Not regulated

**IMDG/IMO** Not regulated

## 15. Regulatory information

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS)&(ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component       | CAS No    | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL    |
|-----------------|-----------|-----|------|-----------|-------|------|------|------|-------|---------|
| Tranexamic acid | 1197-18-8 | -   | -    | 214-818-2 | X     | X    | X    | -    | X     | KE-0145 |

### U.S. Federal Regulations

**SARA 313** : Not applicable

**SARA 311/312 Hazard Categories** :See section 2

**CWA (Clean Water Act)** : Not applicable  
**Clean Air Act** : Not applicable  
**OSHA** : Not applicable

**CERCLA** : Not applicable  
**California Proposition 65** : This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations** : Not applicable

**U.S. Department of Transportation**

Reportable Quantity (RQ) : N      DOT Marine Pollutant : N      DOT Severe Marine Pollutant : N

**U.S. Department of Homeland Security** : This product does not contain any DHS chemicals.

**Other International Regulations**

**Mexico - Grade** : No information available

**Authorisation/Restrictions according to EU REACH**

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

**Component**                      **CAS No**                      **OECD HPV Persistent Organic**

| <b>Component</b> | <b>CAS No</b> | <b>OECD HPV</b> | <b>Persistent Pollutant</b> | <b>Organic</b> | <b>Ozone Depletion Potential</b> | <b>Restriction of Hazardous Substances (RoHS)</b> |
|------------------|---------------|-----------------|-----------------------------|----------------|----------------------------------|---|
| Tranexamic acid  | 1197-18-8     | Not applicable  | Not applicable              |                | Not applicable                   | Not applicable                                    |

| <b>Component</b> | <b>CAS No</b> | <b>Seveso III Directive(2012/18/EC) Qualifying Quantities for Major Accident Notification</b> | <b>Seveso III Directive (2012/18/EC) Qualifying Quantities for Safety Report Requirements</b> | <b>Rotterdam Convention (PIC)</b> | <b>Basel Convention (Hazardous Waste)</b> |
|------------------|---------------|---|---|-----------------------------------|---|
| Tranexamic acid  | 1197-18-8     | Not applicable  | Not applicable  | Not applicable                    | Not applicable                            |

**16 OTHER INFORMATION**

**Disclaimer:**

This 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 other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.