MATERIAL SAFETY DATA SHEET SUCCINIC ACID



1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Succinic Acid Supplier: ASES CHEMICAL WORKS.

Chemical Name: Butane dioic acid, 1,4-Butanedioic acid **Address:** Brahm Bagh, Jalori Gate

CAS Number: 110-15-6 O Jodhpur - 342001 Rajasthan-India

Formula: C₄H₆O₄ HO OH Phone: +91-9636889954

Product Form: Substance O Web: www.ases.in

Product Use: Laboratory chemicals, Manufacture of substances Email: ecom@ases.in

2 HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Specific target organ toxicity – Single exposure, Category 3 H335

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

GHS05 GHS07

Signal word (CLP): Danger

Hazard statements (CLP): H315 - Causes skin irritation.

H318 - Causes serious eye damage. H335 - May cause respiratory irritation.

Precautionary statements (CLP): P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective clothing, eye protection, face protection, protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep 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.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name CAS# EC Number Concentration

Succinic Acid 110-15-6 203-740-4 100%

4 FIRST AID MEASURES

General: Call a poison centre or a doctor if you feel unwell.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep

comfortable for breathing. Call a poison centre or a doctor if you feel unwell.

Skin: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: Get

medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing.

Eye: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a physician.

Instigation: Rinse mouth out with water. If you feel unwell, seek medical advice. Call a doctor if you feel unwell.

5 FIRE-FIGHTING MEASURES

Extinguishing media: Dry chemical powder, alcohol-resistant foam, carbon CO₂. Water spray. Dry powder. Foam.

Unsuitable extinguishing media Do not use a heavy water stream.

Firefighting instructions: Do not enter fire area without proper protective equipment and respiratory protection.

Protective Equipment: Self-contained breathing apparatus plus full protective equipment recommended.

Hazardous decomposition: Toxic fumes may be released.

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6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

Environmental precautions: Avoid release to the environment.

Methods of Cleaning up: Clean up any spills asap, using an absorbent material to collect and suitable disposal containers.

7 HANDLING & STORAGE

Handling: Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid

contact with skin and eyes. Wear personal protective equipment. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

Storage: Keep container tightly closed. Store in original container. Store in a dry place. Protect from moisture. Store locked

up. Store in a well-ventilated place. Store always product in container of same material as original container.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: No additional information available.

Engineering controls: Ensure good ventilation of the work station.

Respiratory protection: Wear appropriate mask.

Eye protection: Chemical goggles or safety glasses.

Personal protection: Protective clothing should be worn. Use protective.

Environmental controls: Avoid release to the environment.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state :SolidDecomposition temperature :> 235 °CColour :White.pH :2.7

Colour:White.pH:2.7Appearance:Crystalline powder.pH solution :0.1M aq. solution

Molecular mass: 118.09 g/mol Viscosity, kinematic: Not applicable

Odour: Odourless. Solubility: Water: 58 g/l at 20 °C - soluble in water

Odour threshold: Not available Partition coefficient Not available

Melting point : 185 – 189 °C n-octanol/water (Log Kow)

Freezing point: Not applicable Vapour pressure: 0.0022 mm Hg at 19 °C

Boiling point :235 °CVapour pressure at 50°C :Not availableFlammability :Non flammableDensity :1.56 g/cm³Lower explosion limit :Not applicableRelative density :Not availableHeave available in limit :Not applicableRelative vapour density :Not applicable

Upper explosion limit :Not applicableRelative vapour density.Not applicableFlash point :206 °CParticle size :Not available

Auto-ignition temp: 630 °C

10 STABILITY AND REACTIVITY

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability: Stable under normal conditions.

Hzardous reactions No dangerous reactions known under normal conditions of use.

Conditions to avoid: Direct sunlight. Air contact. Moisture. **Incompatible materials:** No additional information available

Hazardous decomposition: Under normal conditions of storage and use should not be produced.

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11 TOXICOLOGICAL INFORMATION

Acute toxicity (oral/dermal/inhalation): Not classified

Skin corrosion-Serious eye damage: Causes skin irritation. Serious eye damage pH: 2.7

Respiratory or skin sensitisation :Not classifiedGerm cell mutagenicity :Not classifiedCarcinogenicity :Not classifiedReproductive toxicity :Not classified

STOT-single/ repeated exposure : May cause respiratory irritation.

12 ECOLOGICAL INFORMATION

Toxicity:The product is not considered harmful to aquatic organisms nor to cause

long-term adverse effects in the environment.

Persistence and degradability: Rapidly degradable

Bioaccumulative potential:No additional information availableMobility in soil:No additional information availablePBT and vPvB assessment:No additional information availableOther adverse effects:No additional information available

13 DISPOSAL CONSIDERATIONS

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Disposal must be done according to official regulations.

Product/Packaging disposal: Comply with applicable regulations for solid waste disposal. Disposal must be done according

to official regulations.

14 TRANSPORT INFORMATION

In Accordance to ADR / RID / IMDG / IATA / ADN: Not Regulated.

15 REGULATORY INFORMATION

Chemical safety assessment No chemical safety assessment has been carried out.

16 OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and ASES CHEMICAL WORKS assume no liability resulting from its use.