MATERIAL SAFETY DATA SHEET (MSDS)

EM Science
M A T E R I A L S A F E T Y D A T A S H E E T

Section I Product Identification and Use

Manufacturer:
EM SCIENCE
A Division of EM Industries
P.O. Box 70
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For More Information Call
856-423-6300 Technical Service
Monday - Friday; 8:00 AM to 5:00 PM
In Case of Emergency Call
800-424-9300 CHEMTREC (USA)
416-201-6383 CANUTEC (Canada)
24 Hours/Day: 7 Days/Week

Product Name: Sodium Succinate
Product Code(s): B30219 ,
Chemical Name/Other Name: Succinie acid Sodium Salt
Chemical Formula: $(CH_2COONa)_2.6H_2O$
Chemical Family: Organic salt
TDG Shipping Name/UN: Not applicable
TDG Classification/Packing group: Not applicable
Use: Laboratory reagent

Section II Hazardous Ingredients

Chemical name	CAS No.	%
Succinie acid Sodium Salt	6106-21-4	100

Section III Physical Data

Physical State: Solid
Appearance and Odour: Fine, white crystalline granules
Odour Threshold: Not applicable
Specific Gravity: Not applicable
Vapour Pressure: Not applicable
Vapour Density: Not available
Evaporation Rate: Not available
Boiling Point: Not applicable
Freezing Point: Not available
pH: Aquous solution is neutral or slightly alkaline
Coefficient of water/oil distribution: Not available

Section IV Fire or Explosion Hazard

Conditions of Flammability: Noncombustible
Extinguishing Media: Use an extinguisher appropriate to the surrounding material that is burning
Flash point / method: Not applicable

UEL: Not applicable
LEL: Not applicable
Autoignition Temperature: Not available
Hazardous Combustion Products: No information available
Explosion data - sensitivity to mechanical impact: No
- sensitivity to static discharge: No

Section V Reactivity Data

Conditions of instability: Normally stable
Incompatibilities: None known
Conditions of reactivity: None known
Hazardous decomposition products: When heated to decompose CO_2 and CO may form

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Section VI Toxicological Properties / Health Hazard Data

Route of entry:
- **-skin contact:** No adverse effects expected
- **-skin absorption:** Risk of absorption is very low
- **-eye contact:** Dust may cause mechanical irritaiton
- **-inhalation:** When inhaled it may cause rapid breathing and palpitation
- **-ingestion:** Material is a diuretic, cathartic and can cause nerve disorders. Large doses can affect kidney function.

LC_{50}: Not available
LD_{50}: LDlo 2000 mg/kg (inv, cat) 4.5 g/kg (i.v. in mice)
Exposure Limits: No information available
Effects of Acute Exposure: No information available
Effects of Chronic Exposure: No information available
Irritancy: No infomation available
Sensitization to Product: No information available
Carcinogenicity: No information available
Reproductive Toxicity: No information available
Teratogenicity: No informtion available
Mutagenicity: No information available
Toxicologically Synergistic Products: None known

Section VII First aid measures

Skin: Flush the contact area with lukewarm running water for at least 15 minutes. Remove contaminated clothing, taking care not to spread the chemical. If contamination is extensive, remove clothing under running water. Discard or decontaminate clothing under running water. Discard or decontaminate clothing before use. Unless contact has been slight, seek medical attention. Seek medical attention if irritation persists.
Eye: Flush the contaminated eye(s) for at least 15 minutes with lukewarm running water, holding the eyelids open. Take care not to rinse contaminated water into the non-affected eye. Always seek medical attention for accidents involving the eyes.
Inhalation: Take proper precautions to ensure your own safety before attempting rescue. Remove source of contamination or move victim to fresh air. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately.

Seek medical attention.
Ingestion: Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Do not induce vomiting. Have victim drink 200-400 ml of water to dilute. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Section VIII Preventive Measures

Engineering Controls: Engineering control methods to reduce hazardous exposures are preferred. Methods include mechanical ventilation (dilution and local exhaust), process or personnel enclosure, control of process conditions, and process modification. Administrative controls and personal protective equipment may also be required.
Personal protective equipment:
- **-gloves:** Rubber
- **-respiratory protection:** Dust mask
- **-eye protection:** Safety goggles
- **-clothing:** Plastic apron

Storage Requirements: Store in suitable labelled containers. Keep containers tightly closed when not in use and when empty. Protect from damage. Store in a cool, dry, well-ventilated area, out of direct sunlight.
Handling Procedures and Equipment: Avoid generating dust. Follow routine safe handling procedures.
Leak or Spill Clean-up: Before dealing with spillages take necessary protective measures, inform others to keep at a safe distance and, for flammable materials, shut off all possible sources of ignition. If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb on inert absorbent, transfer to container and transport to safe open area for atmospheric evaporation (if volatile) or arrange removal by disposal company. Ventilate area to dispel residual vapour.
Disposal: Follow all federal, provincial and local regulations for disposal. Use only licensed disposal and waste hauling companies. Disposal of small amounts of spilled material may be handled as described under "Leak or Spill Cleanup". Large spills must be dealt with separately and must be handled by qualified disposal companies.
Special Shipping Information: Follow all TDG regulations and see classification in Section I

Section IX Preparation Information

Prepared by: Technical Affairs Department, BDH Inc.,
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(416) 255-8521

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Note: This product is not controlled by WHMIS.

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