



P.O. Box 15018
Hastings, New Zealand

**MATERIAL SAFETY DATA SHEET
IN CASE OF SPILL CALL
(06) 879-9438**

Section I - Product Identification

Trade Name: **Brown Out Remover**
Chemical or Common Name or use: Mixture containing sulfamic acid
Chemical Family: Inorganic Acid
Formula: Proprietary

Section II - Hazardous Ingredients

Hazardous Component: Sulfamic Acid
CAS No: 05329-14-6
Occupational Exposure Limits: None Listed
Toxicity Data: Human, Oral, Ld₅₀: 500 mg/kg
Rat, Oral, Ld₅₀: 1600 mg/kg

Section III - Physical Data

Boiling Point:	N/A	Vapour Pressure:	N/A
Vapour Density (Air=1):	N/A	Solubility in Water:	Soluble
Specific Gravity:	N/A	% Volatile by Volume:	N/A
Evaporation Rate:	N/A	Appearance:	White Crystalline powder
Odour:	Bland		

Section IV - Fire and Explosion Hazard Data

Flash Point: None
Flammable Limits: N/A
Extinguishing Media: Appropriate for surrounding conditions.
Special Fire Fighting Procedures: Fire fighters must use self-contained breathing apparatus and wear fully protective clothing.
Unusual Fire and Explosion Hazard: None

Section V - Health Hazard Data

Primary Route of Entry: Eye: yes Skin: yes Inhalation: yes Ingestion: no
Eye Contact: Dust causes eye burns.
Skin Contact: Dust will irritate the skin.
Inhalation: Breathing dust may irritate the nose and throat and cause coughing and chest discomfort.
Carcinogens Listed In: NTP: No IARC: No OSHA: No
Eye Contact First Aid: Hold eyelids apart

Section VI - Emergency First Aid Measures

Eye & Skin Contact: Flush eyes with plenty of water for at least 15 minutes; lift the upper and lower eyelids occasionally, and get prompt medical attention; wash skin thoroughly with soap and water; remove and wash clothing before reuse.
Inhalation: Move subject to fresh air.
Ingestion: Do not induce vomiting. If conscious, give lots of water. Call a physician. Do not give anything by mouth to an unconscious or convulsing person.

Section VII - Reactivity Data

Stability: Stable
Conditions to Avoid: High temperatures, or alkalies
Incompatibility: Oxidizing agents
Hazardous Decomposition Products: Sulfur oxides, nitrogen oxides, and ammonia gas
Hazardous Polymerization: Will not occur

MSDS Brown Out Remover
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MD

BROWN OUT REMOVER

Section VIII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Notify safety personnel of leak or spill. Remove sources of high temperature. Provide adequate ventilation. Cleanup person needs protection against inhalation of dust or contact with skin or eyes. Collect spilled solid for disposal or recovery by damp sweeping it up and scooping it into containers carefully while avoiding generation of dust. Flush trace residues with water.

Waste Disposal Method: Scrap material can be cautiously mixed with cold water and agitated to neutralize it. After neutralization small amounts of waste can be discharged with a large excess of water. Follow federal, state and local regulations. Note: Large amounts of scrap or impurities may require special disposal procedures.

Precautions to be Taken in Handling and Storage: Store in closed containers in a cool, dry, well ventilated area away from sources of high temperature..

Section IX - Special Protection Information

Respiratory Protection: Provide adequate exhaust ventilation suitable to keep airborne particulate at a minimum. An approved dust mask or respirator should be available for non-routine or emergency use where dusty conditions occur.

Ventilation: Mechanical

Protective Gloves: Yes

Eye Protection: Safety Goggles

Other Protective Equipment: Contact lenses pose a special hazard; soft lenses may absorb irritants, and all lenses concentrate them.

Section X - Classification Information

NFPA Hazard Rating (NFPA Standard 704) Health: 2 Fire: 0 Reactivity: 1 Special: None
TSCA Inventory Status: All Components Listed
SARA Title III, Section 302: None Listed SARA Title II, Section 313: None Listed

Section XI - Shipping Information

MOT Shipping Name: Sulfamic acid, mixture
ID No.: UN2967
IMO Label: Corrosive
EmS No.: 8-08

MOT Hazard Class: Corrosive
MOT Label: Corrosive
IMDG Packaging Group: III
MFAG Table No.: 700

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N/A = Not Applicable N/E = Not Established N/D = No Data