



## Section 1: Identification of the Material and Supplier

**Product Name:** Cow Power Powder Acid

**Other Names:** Sulphamic acid mixture.

**Proper shipping name (ADG Code):** Sulphamic acid mixture.

**Recommended use:** As a low foaming acid detergent for the removal of milk stone, water scale and other acid-soluble dairy residues. Use strictly as directed on the product label.

**Supplier:** DASCO Pty. Ltd.,  
ABN: 14 004 581 113  
24 - 26 Helen Street, HEIDELBERG HEIGHTS VIC 3081  
Tel: (03) 9459 7004 (business hours)  
Fax: (03) 9459 9200

**Emergency Phone Numbers:**

Transport/Fire Emergency: 000 (Emergency services)  
Medical Emergency: 131126 (Poisons Information Centre)

## Section 2: Hazards Identification

Classified as hazardous according to criteria of Worksafe Australia.

Dangerous goods.

**Risk Phrases:** R: 36/38 Irritating to skin and eyes.  
R: 52/53 Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.

**Safety Phrases:** S: 2 Keep out of the reach of children.  
S: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S: 28 After contact with skin, wash immediately with plenty of soap-suds.  
S: 61 Avoid release to the environment. Refer to special instructions / Material Safety Data Sheets.

## Section 3: Composition/Information on Ingredients

**Ingredients:**

Sulphamic acid	[5329-14-6]	> 60 %
Surfactant		< 10 %
Other ingredients deemed not to be hazardous		to 100 %

## Section 4: First Aid Measures

For advice, contact a Poisons Information Centre (Phone 131 126) or a doctor.

Swallowed: If swallowed, do NOT induce vomiting.

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Eyes: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Center or a doctor, or for at least 15 minutes.

Inhaled: Remove from exposure.

### First Aid facilities:

Recommended: Eye wash. Hand wash basin.

### Advice to Doctor:

Product is a mixture containing a very high proportion of sulphamic acid and a very low proportion of a surfactant. Corrosive irritant to moist tissues. Contact Poisons Information Centre.

### Aggravated medical conditions:

No data found.

## Section 5: Fire Fighting Measures

HAZCHEM Code: 2 Z

Evacuate: No.

Extinguishant: Water fog or fine water spray.

Risk of violent reaction or explosion: No.

Products of combustion: Oxides of sulphur, oxides of nitrogen.

Protective Equipment: Breathing apparatus and protective gloves.

## Section 6: Accidental Release Measures

### Emergency Procedures:

Contain.

### For large spills:

Contain spillage using sand or earth. Transfer both liquids and solids to suitable container. Treat residues as for small spillages.

### For small spills:

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise mix with inert absorbent, transfer to suitable container and arrange removal by disposals company.

## Section 7: Handling and Storage

### Precautions for safe handling:

Avoid contact with skin and eyes.

Do not inhale dusts.

Keep away from oxidising agents, alkalis (including carbonates and bicarbonates), metal nitrates, metal nitrites.

### Conditions for safe storage:

Store in a cool, dry, well ventilated place, out of reach of children. Large quantities should be stored in a dangerous goods store. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from oxidising agents, alkalis. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

### Incompatibles:

Oxidising agents, alkalis.

## Section 8: Exposure Controls/Personal Protection

### National Exposure Standards:

**ES-TWA:** None assigned.

**ES-STEL:** None assigned.

**ES-PEAK:** None assigned.

**Notations:** None.

**Biological Limit Values:** No data found.

### Engineering Controls:

Avoid using metals as materials of construction.

Ensure adequate ventilation (same as outdoors) when using.

If handling industrial quantities, or if vapour/aerosol risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible.

### Personal Protective Equipment:

Avoid contact with skin and eyes. Avoid breathing dust. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

#### Normal Use:

Eye/face protection

Gloves, rubber or plastic.

#### Industrial Quantities:

Dust mask

Face shield or safety glasses

Gloves, rubber or plastic

Plastic apron, sleeves and boots

Impervious overalls.

## Section 9: Physical and Chemical Properties

Appearance: Red, granular powder.  
Odour: Almost odourless.  
pH: Very acid.  
Vapour Pressure: No data.  
Vapour Density: No data.  
Boiling Point: No data.  
Melting Point: No data.  
Volatiles: Nil.  
Volatile Organic Compounds (VOC): Nil.  
Evaporation Rate: No data.  
Solubilities: Soluble in water.  
Specific Gravity/Density: No data.  
Flash Point: None.  
Flammable Limits: None.  
Dust Explosion: Is not likely to occur.  
Auto-ignition Temperature: No data.

### Other Information:

Very acidic. Will react vigorously or violently with alkalis.  
May react with strong oxidising agents. May react with metal nitrates and nitrites. Corrosive to most metals in the presence of moisture. Spillages will be slippery when wet.

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Incompatible materials, moisture.

**Incompatible Materials:** Alkalis, oxidising agents, nitrates, nitrites.

**Hazardous Decomposition Products:** Oxides of sulphur, oxides of nitrogen.

**Hazardous Reactions:** May react violently with alkalis, fuming nitric acid.  
Corrosive to most metals in the presence of moisture.

## Section 11: Toxicological Information

### Health Effects:

No data available for the mixture. Information presented relates to individual ingredients.

<b>Acute:</b>	<b>Swallowed:</b>	May be fatal if swallowed. May cause sore throat, a burning sensation, abdominal cramps, vomiting and diarrhoea. May cause shock, severe burns to the mouth, throat and stomach, leading to death.
	<b>Skin:</b>	Corrosive to the skin, especially when wet. May cause redness, pain, blisters and skin burns.
	<b>Eyes:</b>	Corrosive to the eyes. May cause redness, pain, blisters and severe burns.
	<b>Inhaled:</b>	Dust inhaled may be extremely destructive to tissues of the mucous membranes and the upper respiratory tract. May cause a burning sensation in the chest, coughing, wheezing, laryngitis, difficulty breathing, headache, nausea and vomiting. Inhalation of sulphamic acid dust may cause pulmonary oedema (fluid build-up in the lungs) which has the potential to become a medical emergency. Onset of symptoms may be delayed by up to 48 hours - medical observation may be indicated.
<b>Chronic:</b>		Repeated skin exposure may cause irritation and burns. Repeated inhalation exposure may cause symptoms similar to acute exposure.
<b>LD50:</b>	Sulphamic acid	3,160 mg/kg oral, rat. 1,312 mg/kg oral, mouse. 1,050 mg/kg oral, guinea pig.

## Section 12: Ecological Information

<b>Ecotoxicity:</b>	Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment
<b>Persistence and degradability:</b>	The surfactant used in this product is regarded as partially biodegradable.
<b>Mobility:</b>	Readily transported by water.
<b>Environmental Fate:</b>	No data.
<b>Bioaccumulative potential:</b>	No data.
<b>Other adverse environmental effects:</b>	Contains a surfactant. Local concentrations may be harmful to aquatic organisms, including fish.

## Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal.

**Consult appropriate local and State regulations.**

Product contains a moderate proportion of sulphate in acidic solution. Release of acidic sulphate to concrete sewer may be regulated by local authorities.

**Disposal methods and containers:**

Avoid disposal to drains, natural waters or the environment.  
Do not use metal containers.

**Special precautions for landfill or incineration:**

Unsuitable for incineration.  
May not be suitable for some landfill sites.

## Section 14: Transport Information

**UN Number:** UN 2967

**UN Proper shipping name:** Sulphamic acid mixture.

**Class and subsidiary risk:** 8 Corrosive.

**Packaging group:** III

**Special precautions for user:** Do not store or transport with dangerous goods of classes 1, 4.3, 5.1, 5.2, 6 (cyanides), 7, 8 (alkalis), foodstuffs and foodstuff empties.  
Contain spillages.

**HAZCHEM Code:** 2 Z

**Material for export:** Regulated.  
Refer to **IMO\IMDG** and **IATA\ICAO**.

## Section 15: Regulatory Information

**Poisons (SUSDP):** Schedule 6  
*Sulphamic acid > 10 %*

**Dangerous Goods:** Yes. UN 2967 8/III 2 Z.

**Carcinogen:** **Australia** **IARC** **NTP** **RTECS**  
No. No. No. No.

**Agricultural and Veterinary Chemicals Act:**  
This product is registered with the Australian Pesticides and Veterinary Medicines Authority (**APVMA**).

**Australian Inventory of Chemical Substances (AICS):** Listed.

**Other National/International Regulations:** No data found.

## Section 16: Other information

**Date of MSDS update:** September 2009  
Complete review and re-write of all sections.

**Abbreviations:**

NOHSC - National Occupational Health and Safety Commission.  
ACGIH - American Conference of Governmental Industrial Hygienists.  
MAK - Maximum workplace concentration - Germany,  
(*maximale Arbeitsplatzkonzentration*)  
IARC - International Agency for Research on Cancer (France).  
NTP - National Toxicology Program (USA).  
RTECS - Registry of Toxic Effects of Chemical Substances.

**Literature references:**

**Available Sources of Data:**

*National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [2011(2003)] - NOHSC.*  
*Australian Dangerous Goods Code.*  
*Standard for the Uniform Scheduling of Drugs and Poisons - AHMAC.*  
*Exposure Standards for Atmospheric Contaminants in the Occupational Environment [1003]- NOHSC.*  
*List of Designated Hazardous Substances [10005] - NOHSC.*  
*Merck Index - Merck Inc.*  
*Sax's Dangerous Properties of Industrial Materials - Lewis.*  
*Handbook of Toxic and Hazardous Chemicals and Carcinogens - Sittig.*  
*Handbook of Reactive Chemical Hazards - Bretherick.*  
*Hawley's Condensed Chemical Dictionary - Wiley Interscience.*  
*AUSREG's Chemical Data Package for PCs - AUSREG Consultancy.*