



Section 1: Identification of the Material and Supplier

Product Name: Sunrise Powder

Other Names: Sulphamic acid mixture containing surfactant.

Proper shipping name (ADG Code): Sulfamic acid mixture.

Recommended use: As an acid dairy detergent.
Use 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 eyes and skin.
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 Sheet.

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, rest and keep warm.

First Aid facilities:

Mandatory: Eye wash. Hand wash basin.

Recommended: Emergency shower if handling industrial quantities.

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 in the presence of moisture. Risk of serious eye damage. Inhalation of dusts may lead to delayed onset pulmonary oedema; consider medical observation of up to 48 hours after over-exposure. Contact Poisons Information Centre.

Aggravated medical conditions:

Respiratory disfunction.

Section 5: Fire Fighting Measures

HAZCHEM Code: 2 Z

Extinguishant: Water fog or fine water spray.

Risk of violent reaction or explosion: No.

Products of combustion: Oxides of carbon, 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 absorb on 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.
Keep away from alkalis (including carbonates and bicarbonates), oxidising agents.
Corrosive to most metals in the presence of moisture.

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 naked flames and other sources of ignition. Keep away from alkalis, oxidising agents. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

Incompatibles:

Oxidising agents (including nitrates and nitrites), alkalis (including carbonates and bicarbonates), metals (in the presence of moisture), nitric acid.

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 metal as a material of construction in wet areas.
Ensure adequate ventilation (same as outdoors) when using.
If handling industrial quantities, or if dust/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. Do not breathe dusts. 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:

Face shield or safety glasses
Gloves, rubber or plastic
Plastic apron, sleeves and boots
Impervious overalls.

Section 9: Physical and Chemical Properties

Appearance: Pink, slightly sticky, crystalline powder.
Odour: Slight detergent smell.
pH: Very acid.
Vapour Pressure: No data.
Vapour Density: Not applicable.
Boiling Point: No data.
Melting Point: No data.
Volatiles: None.
Volatile Organic Compounds (VOC): None.
Evaporation Rate: Not applicable.
Solubilities: Soluble in water.
Specific Gravity/Density: No data.
Flash Point: None.
Flammable Limits: None.
Dust Explosion: Will not occur.
Auto-ignition Temperature: Decomposes above 190 °C

Other Information:

Acidic mixture. May react vigorously or violently with alkalis. Contact with carbonates or bicarbonates will generate carbon dioxide, a simple asphyxiant. Will react with strong oxidising agents. Violent or explosive reactions with metal nitrates, metal nitrites and fuming nitric acid. Corrosive to most metals in the presence of moisture. Reacts slowly with water. Combustible solid.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Incompatible materials, moisture, naked flames.

Incompatible Materials: Metals (in the presence of moisture), alkalis, oxidising agents, nitrates, nitrites, nitric acid.

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

Hazardous Reactions: Violent or explosive reactions with metal nitrates, metal nitrites, fuming nitric acid. Contact with strong oxidising agents may cause fire. Contact with carbonates or bicarbonates will generate carbon dioxide. Corrosive to metals when wet. Violent reactions with strong alkalis.

Section 11: Toxicological Information

Health Effects:

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

Acute:	Swallowed:	May be fatal if swallowed. Large doses can cause severe burns to the mouth, throat and stomach, leading to death. Smaller doses may cause sore throat, a burning sensation, abdominal cramps, vomiting, diarrhoea and shock.
	Skin:	Corrosive to the skin, especially when wet. Can cause redness, pain, blisters and severe burns.
	Eyes:	Corrosive to moist eye tissues. May cause redness, pain, blurred vision, tissue damage and severe, deep burns.
	Inhaled:	Extremely destructive to the moist tissues of 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 dusts may cause pulmonary oedema (fluid build-up in the lungs) which may have the potential to become a medical emergency. Onset of symptoms may be delayed by up to 48 hours - medical observation may be necessary.
Chronic:		Repeated skin exposure may lead to irritation and dermatitic effects.
LD50:	Sulphamic acid	3,160 mg/kg oral, rat. 1,312 mg/kg oral, mouse.

Section 12: Ecological Information

Ecotoxicity:	Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.
Persistence and degradability:	The surfactant used in this product is not considered to be readily biodegradable.
Mobility:	Readily transported by water.
Environmental Fate:	No data.
Bioaccumulative potential:	No data.
Other adverse environmental effects:	No data.

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.

Disposal methods and containers:

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

Special precautions for landfill or incineration:

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

Section 14: Transport Information

UN Number: UN 2967

UN Proper shipping name: Sulfamic acid

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): S6 Sulfamic acid > 10 %, and labelled: "*WARNING: Corrosive. Avoid contact with skin and eyes.*"

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 update 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.