



Sulphamic Acid

AGent

AGent SDS: Sulphamic Acid [2026.01]

Version No: 2026.01

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Hazard Alert Code: 2

Issue Date: June 2026

Print Date: (auto-fills on print)

AGENT.GHS.AUS.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	Sulphamic Acid
Chemical Name	Sulphamic acid
Synonyms	Sulfamic acid; amidosulphonic acid; aminosulphonic acid; sulphamidic acid
Proper shipping name	SULPHAMIC ACID
Chemical formula	H ₃ NSO ₃
Other means of identification	Sulphamic Acid [2026.01]

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Descaling / scale removal; cleaning agent; pH adjustment; sulphonation; metal cleaning.
Uses advised against	Do NOT mix with chlorine / hypochlorite (liberates toxic gases) or with nitric acid / nitrites. Avoid contact with bases and oxidisers.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	AGent Sales & Services Pty Ltd
Address	38 May Holman Drive, Bassendean WA 6054, Australia
Telephone	(+61 8) 6270 4500 / 1300 833 844
Website	agentsales.com.au
Email	admin@agentsales.com.au

Emergency telephone number

Association / Organisation	Hazrad (outside 24-hour emergency response provider)
Emergency telephone numbers	08 9418 4200 (24-hour) — answered by Hazrad on AGent's behalf
Other emergency telephone numbers	Poisons Information Centre 131 126 (Australia) / 0800 764 766 (NZ)

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS Class 8 (Corrosive), PG III. NOT a Scheduled Poison. Classified under the WHS Regulations.

Poisons Schedule (SUSMP)	Not Scheduled (SUSMP — not listed)
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Classification

- Serious Eye Damage/Eye Irritation Category 2A — H319
- Skin Corrosion/Irritation Category 2 — H315

- Hazardous to the Aquatic Environment, Long-term (Chronic) Category 3 — H412

Label elements

Hazard pictogram(s)	
Signal word	Warning

Hazard statement(s)

- H319 — Causes serious eye irritation.
- H315 — Causes skin irritation.
- H412 — Harmful to aquatic life with long lasting effects.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

- P264 — Wash contacted areas thoroughly after handling.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

Precautionary statement(s) Response

- P302+P352 — IF ON SKIN: Wash with plenty of water.
- P321 — Specific treatment (see Section 4).
- P332+P313 — If skin irritation occurs: Get medical advice / attention.
- P362+P364 — Take off contaminated clothing and wash it before reuse.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P337+P313 — If eye irritation persists: Get medical advice / attention.

Precautionary statement(s) Storage

- P403+P233 — Store in a well-ventilated place. Keep container tightly closed and dry.

Precautionary statement(s) Disposal

- P501 — Dispose of contents/container in accordance with local, state and federal regulations.

Other hazards

Acidic solution. Contact with hypochlorite / chlorine releases toxic gases. Slowly hydrolyses to ammonium bisulphate in hot water. Corrosive to metals.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures.

Mixtures

CAS No.	% [weight]	Name	Classification
5329-14-6	100	Sulphamic acid	Eye Irrit. 2A (H319); Skin Irrit. 2 (H315); Aquatic Chronic 3 (H412)

SECTION 4 First aid measures

Description of first aid measures

Eye Contact

Immediately rinse with plenty of running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses if easy to do. Continue rinsing. If irritation persists, seek medical advice.

Skin Contact

Remove contaminated clothing and wash affected areas with soap and running water. If irritation occurs, seek medical advice. Launder clothing before reuse.

Inhalation

Remove person to fresh air. If dust is inhaled and irritation occurs, seek medical advice.

Ingestion

Rinse mouth with water. Do NOT induce vomiting. Give water to drink. Seek medical advice.

Most important symptoms and effects, both acute and delayed

Causes serious eye irritation (tearing, stinging, blurred vision, redness) and skin irritation (redness, itching, pain). Dust irritates the respiratory tract.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Contact the Poisons Information Centre (Australia 131 126; New Zealand 0800 764 766).

First Aid facilities

Eye wash facilities and a safety shower must be available in any area where this product is handled.

SECTION 5 Firefighting measures

Extinguishing media

Non-combustible. Use extinguishing media suitable for the surrounding fire.

Special hazards arising from the substance or mixture

Fire Incompatibility

Decomposition / fire may emit toxic sulphur and nitrogen oxides.

Advice for firefighters

Fire Fighting

Wear self-contained breathing apparatus (SCBA) where decomposition fumes are present.

Fire / Explosion Hazard

Non-combustible solid. Toxic sulphur / nitrogen oxides on decomposition.

HAZCHEM Code	2X
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SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 for personal protective equipment requirements.

Wear PPE per Section 8. Avoid generating / breathing dust. Avoid skin and eye contact.

Environmental precautions

Prevent product entering drains and waterways. If contamination of sewers / waterways occurs, advise local emergency services.

Methods and material for containment and cleaning up

Minor Spills

Sweep / vacuum up avoiding dust. Transfer to a labelled container for disposal. Rinse the area with water afterwards.

Major Spills

Contain and collect as above. Prevent run-off to waterways. Notify the Environmental Protection Authority if waterways are threatened.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

Avoid generating / breathing dust. Avoid skin and eye contact. Do not mix with hypochlorite / chlorine or nitric acid / nitrites. Observe good personal hygiene.

Other information

Keep containers closed and dry when not in use; check regularly for leaks. Store away from incompatible materials (Section 10).

Conditions for safe storage, including any incompatibilities

Suitable container

Store in a cool, dry, well-ventilated place. Keep containers closed. Use corrosion-resistant materials. Store away from bases, oxidisers, hypochlorite / chlorine and incompatible materials (Section 10). DG Class 8.

Storage incompatibility

Bases / alkalis; oxidisers; chlorine / hypochlorite; nitric acid / nitrites; metals (corrosive). See Section 10.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

Reference: Safe Work Australia, "Workplace Exposure Limits for Airborne Contaminants" (April 2024) by Safe Work Australia.

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
SWA WEL 2024	Sulphamic acid (5329-14-6)	Sulphamic acid (dust)	No specific WEL assigned (control dust to n.o.s. limits 10/3 mg/m ³)	Not assigned	Not assigned	No specific WEL for sulphamic acid. Control airborne dust to dust (n.o.s.) limits.

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
Sulphamic acid	Not established (DOE PAC)	Not established (DOE PAC)	Not established (DOE PAC)
Ingredient	Original IDLH	Revised IDLH	
Sulphamic acid	Not established (NIOSH)	Not established (NIOSH)	

MATERIAL DATA

No whole-mixture occupational exposure data are available; manage on a per-component basis (above).

Exposure controls

Appropriate engineering controls

Apply the hierarchy of controls (WHS Reg 36). Where elimination or substitution is not reasonably practicable: provide local exhaust ventilation at points of vapour / mist generation; use closed transfer systems where possible; ensure general ventilation is adequate to keep airborne concentrations below the applicable WEL. Document the risk assessment supporting the chosen control hierarchy.

Individual protection measures, such as personal protective equipment

Eye and face protection

Safety glasses with side shields (AS/NZS 1336 & 1337) as a minimum. Chemical goggles and a face shield (AS/NZS 1336 & 1337) where splash potential exists.

Skin protection

See Hand protection below.

Hands/feet protection

Protective gloves and protective clothing (AS 2161, AS/NZS 2210). Chemical goggles / safety glasses with side shields (AS/NZS 1336 & 1337). Where dust exceeds the exposure limit, a P1/P2 particulate respirator (AS/NZS 1715 & 1716). Eye-wash facilities should be available.

Body protection

See Other protection below.

Other protection

Long-sleeved chemical-resistant protective clothing and apron (PVC or equivalent)

Respiratory protection

If a risk assessment indicates an inhalation risk exists, wear a half-face or full-face respirator with appropriate filter (selection per AS/NZS 1715; respirator per AS/NZS 1716). Specific cartridge / canister recommendation to be confirmed during respiratory protection risk assessment per AS/NZS 1715.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Property	Value
Appearance	Solid — white crystalline powder
Physical state	Solid
Odour	Odourless
Odour threshold	No data available in source SDS
pH (as supplied)	1.18 (1% solution) — strongly acidic
Melting point / freezing point (°C)	205 °C
Initial boiling point and boiling range (°C)	Decomposes
Flash point (°C)	Not applicable — non-combustible
Evaporation rate	Not applicable
Flammability	Not flammable (non-combustible)
Upper Explosive Limit (%)	Not applicable
Lower Explosive Limit (%)	Not applicable
Vapour pressure (kPa)	Negligible
Solubility in water	Soluble (~213 g/L @ 20 °C)
Vapour density (Air = 1)	Not applicable
Relative density (Water = 1)	2.13 g/cm ³
Partition coefficient n-octanol/water	Not applicable — ionic
Auto-ignition temperature (°C)	Not applicable — non-combustible
Decomposition temperature (°C)	> 205 °C
Viscosity (cSt)	Not applicable — solid
Molecular weight (g/mol)	97.1 g/mol
Taste	Not applicable — do not taste
Explosive properties	None known
Oxidising properties	None known
Surface Tension (dyn/cm or mN/m)	Not applicable
Volatile Component (% vol)	None
Gas group	Not applicable
pH as a solution (1%)	1.18 (strongly acidic)
VOC g/L	0 g/L — inorganic; no VOC

SECTION 10 Stability and reactivity

Reactivity	Reacts with hypochlorite / chlorine (toxic gases) and nitric acid / nitrites. Corrosive to metals. See Section 10.
Chemical stability	Stable under normal dry storage conditions. Slowly hydrolyses in hot water.
Possibility of hazardous reactions	Reaction with hypochlorite / chlorine liberates toxic gases. Reacts with nitric acid / nitrites.
Conditions to avoid	Moisture / hot water; contact with bases, oxidisers and chlorine sources.
Incompatible materials	See Section 7. Bases; oxidisers; chlorine / hypochlorite; nitric acid / nitrites; metals.
Hazardous decomposition products	Sulphur and nitrogen oxides on heating.

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled

Dust may irritate the respiratory tract.

Ingestion

May cause GI irritation.

Skin Contact

Causes skin irritation — redness, itching, pain.

Eye

Serious eye irritant — tearing, stinging, blurred vision, redness.

Chronic

No component $\geq 0.1\%$ is an IARC carcinogen.

Per-ingredient toxicity

Ingredient	TOXICITY	IRRITATION
Sulphamic acid	Oral LD50 (rat): ~3,160 mg/kg	Eye — serious irritant (2A); Skin — irritant (Cat 2)

Hazard checklist (whole-product classification basis)

Hazard endpoint	Classified	Hazard endpoint	Classified
Acute Toxicity	—	Carcinogenicity	—
Skin Irritation/Corrosion	✓ Skin Irritation Category 2 (H315)	Reproductive Toxicity	—
Serious Eye Damage/Irritation	✓ Serious Eye Irritation Category 2A (H319)	STOT — Single Exposure	—
Respiratory or Skin Sensitisation	—	STOT — Repeated Exposure	—
Mutagenicity	—	Aspiration Hazard	—

Legend: ✓ = Data available to make classification; — = Data either not available or does not fill the criteria for classification.

Information on possible routes of exposure

May be absorbed by ingestion, inhalation of dust, eye and skin contact.

Additional Information

RTECS	WO5950000 (sulphamic acid)
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SECTION 12 Ecological information

Toxicity

Ingredient	Endpoint	Test Duration	Species	Value	Source
Sulphamic acid	Hazardous to the aquatic environment, Long-term Category 3 (H412)	—	Aquatic organisms	Harmful with long-lasting effects (and pH depression)	AGent SDS

Environmental precaution: Prevent entry to drains, waterways and soak-aways. Notify the relevant Environmental Protection Authority if waterway contamination occurs.

Persistence and degradability

Ingredient	Persistence: Water / Soil	Persistence: Air
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Sulphamic acid	Hydrolyses to ammonium bisulphate / sulphate; lowers pH.	Not applicable — non-volatile solid.
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Bioaccumulative potential

Ingredient	Bioaccumulation
Sulphamic acid	Does not bioaccumulate.

Mobility in soil

Ingredient	Mobility
Sulphamic acid	Soluble and mobile in water.

Other adverse effects

Harmful to aquatic life with long-lasting effects (H412). Avoid uncontrolled discharge to waterways.

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- Recycle wherever possible.
- Ensure waste disposal conforms to all relevant local, state and federal authority waste disposal regulations.
- Do NOT discharge into sewers or waterways.
- Empty containers should be returned via AGent's Closed Loop container return program where applicable.
- Whatever cannot be saved for recovery or recycling should be managed through an approved waste disposal facility.
- Dispose of in accordance with local, state and federal regulations. Neutralise dilute solutions before disposal where permitted.

SECTION 14 Transport information

Labels Required	Class 8 (Corrosive)
Marine Pollutant	No
HAZCHEM Code	2X

Land transport (ADG)

UN number	2967
UN proper shipping name	SULPHAMIC ACID
Transport hazard class(es)	8 (Corrosive), PG III. Classified as DANGEROUS GOODS by the criteria of the ADG Code for transport by road or rail.
Packing group	III
Environmental hazard	Not a Marine Pollutant
Special precautions for user	Special Provisions (ADG): None allocated. Limited Quantities (LQ): Dangerous goods exemptions apply for road/rail transport when packed in inner packagings with a net mass not exceeding 5 kg and outer packagings with a gross mass not exceeding 30 kg. Excepted Quantities (EQ): Code E1 applies. Maximum net quantity per inner packaging is 30 g. Maximum net quantity per outer packaging is 1 kg (1000 g).
ERG / EIP number	ANZ-ERG 2024 Guide 154.

Air transport (ICAO-IATA / DGR)

UN number	2967
UN proper shipping name (lowercase)	SULPHAMIC ACID
ICAO/IATA Class	Class 8 (Corrosive), PG III
Packing group	III
Environmental hazard	Not environmentally hazardous
Special provisions	Classified as DANGEROUS GOODS by the criteria of the IATA Code for transport by air.
Cargo Only Packing Instructions	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Cargo Only Max Qty/Pack	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Passenger and Cargo Packing Instructions	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Passenger and Cargo Max Qty/Pack	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.

Sea transport (IMDG-Code / GGVSee)

UN number	2967
UN proper shipping name	SULPHAMIC ACID
IMDG Class	Class 8 (Corrosive), PG III
Packing group	III
Environmental hazard	Not a Marine Pollutant
EMS Number	F-A, S-B
Special provisions	Classified as DANGEROUS GOODS by the criteria of the IMDG Code for transport by sea.

Transport in bulk according to MARPOL Annex II and the IBC Code

Not Applicable — AGent does not transport this product in bulk by sea.

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
Sulphamic Acid	Not Applicable — AGent does not transport this product in bulk by sea.

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
Sulphamic Acid	Not Applicable — AGent does not transport this product in bulk by sea.

SECTION 15 Regulatory information**Safety, health and environmental regulations / legislation specific for the substance or mixture**

SULPHAMIC ACID (CAS 5329-14-6) is found on / assessed against the following regulatory lists:

- Australia Hazardous Chemical Information System (HCIS): Eye Irrit. 2A (H319); Skin Irrit. 2 (H315); Aquatic Chronic 3 (H412)
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Not listed
- Australian Inventory of Industrial Chemicals (AIIC): Listed
- IARC Group classification: Not classified
- Schedule 10 of the model WHS Regulations (prohibited / restricted carcinogens): Not listed
- Schedule 14 of the model WHS Regulations (health monitoring trigger): Not listed

Additional Regulatory Information

Subject to: Work Health and Safety (General) Regulations 2022 (WA); "Workplace Exposure Limits for Airborne Contaminants" (April 2024) by Safe Work Australia; Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) current edition.

National Inventory Status

Country / Inventory	Listed
Australia (AIIC / AICS)	Yes
Canada (DSL)	Not applicable — AGent does not export this product
Canada (NDSL)	Not applicable — AGent does not export this product
China (IECSC)	Not applicable — AGent does not export this product
Europe (EINECS / ELINCS / NLP)	Not applicable — AGent does not export this product
Japan (ENCS)	Not applicable — AGent does not export this product
Korea (KECI)	Not applicable — AGent does not export this product
New Zealand (NZIoC)	Not applicable — AGent does not export this product
Philippines (PICCS)	Not applicable — AGent does not export this product
USA (TSCA)	Not applicable — AGent does not export this product
Taiwan (TCSI)	Not applicable — AGent does not export this product
Mexico (INSQ)	Not applicable — AGent does not export this product
Vietnam (NCI)	Not applicable — AGent does not export this product
Russia (FBEPH)	Not applicable — AGent does not export this product

Legend: Yes = All CAS declared ingredients are on the inventory; No = One or more CAS listed ingredients are not on the inventory (may be exempt or require registration).

SECTION 16 Other information

Revision Date	June 2026
Initial Date	June 2026 (AGent 2026 format)

SDS Version Summary

Version	Date of Update	Sections Updated
2026.01 (AGent 2026 format)	June 2026	Reformatted from the legacy V2.2 document to AGent 2026 SDS layout. §8 to SWA WEL 2024; §14 ERG to ANZ-ERG 2024 Guide 154 (legacy HB76 #37); AICS→AIIC. Classification unchanged (Eye Irrit 2A / Skin Irrit 2 / Aquatic Chronic 3; DG Class 8 PG III; not scheduled).
V2.2 (legacy AGent format)	Pre-2026	Legacy AGent SDS. Declared Eye Irrit 2A + Skin Irrit 2 + Aquatic Chronic 3 (Warning); DG Class 8 PG III (UN2967).

Other information

This SDS is intended as a hazard communication tool to assist in workplace Risk Assessment. It is not an Australian Standard or a definitive document.

Definitions and abbreviations

Abbreviation	Definition
ADG	Australian Dangerous Goods Code
AICS / AIIC	Australian Inventory of Industrial Chemicals (formerly AICS)
AUH	Additional / Australian Hazard statements
BCF	Bioconcentration Factor
BEI	Biological Exposure Index
CAS	Chemical Abstracts Service Registry Number
DNEL	Derived No Effect Level
DSEN	Dermal sensitiser (SWA WEL 2024 notation)
EC50	Effect Concentration causing effect in 50% of test population
EMS	IMDG Emergency Schedule
ERG / EIP	Emergency Response Guide / Emergency Information Panel (SAA/SNZ HB76)
ES	Exposure Standard (legacy term — now WEL)
GHS	Globally Harmonised System of Classification and Labelling
HCIS	Hazardous Chemical Information System (Safe Work Australia)
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
LC50	Lethal Concentration causing death in 50% of test population
LD50	Lethal Dose causing death in 50% of test population
LOAEL	Lowest Observed Adverse Effect Level
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OEL	Occupational Exposure Limit
OTO	Ototoxic (SWA WEL 2024 notation)
PC-STEL	Permissible Concentration — Short Term Exposure Limit
PC-TWA	Permissible Concentration — Time Weighted Average
PNEC	Predicted No Effect Concentration
RSEN	Respiratory sensitiser (SWA WEL 2024 notation)
SDS	Safety Data Sheet
Sk	Skin notation — absorption through the skin a significant route
STEL	Short Term Exposure Limit (15 min TWA)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons

SWA	Safe Work Australia
TEEL	Temporary Emergency Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average (8 hr / 40 hr week)
WEL	Workplace Exposure Limit (Safe Work Australia, April 2024)
WHS	Work Health and Safety

Disclaimer

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