



High Silica Antiscalant

AGent

AGent SDS: High Silica Antiscalant [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)

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

Product Identifier

Product name	High Silica Antiscalant
Chemical Name	Not Applicable (proprietary mixture)
Synonyms	High Silica Antiscalant
Proper shipping name	High Silica Antiscalant (Not classified as a Dangerous Good)
Chemical formula	Aqueous blend of proprietary acidic additives (mixture)
Other means of identification	High Silica Antiscalant [2026.01]

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

Identified uses	Reverse osmosis antiscalant — scale and silica control in ground and waste water.
Uses advised against	Not for domestic / unprotected consumer use. Always add the acid to water, never the reverse.

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. NOT a Dangerous Good. Acidic blend — irritant and corrosive to metals; not classified as a Dangerous Good under the ADG Code.

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

- Corrosive to Metals Category 1 — H290
- Acute Toxicity (Oral) Category 4 — H302
- Skin Corrosion/Irritation Category 2 — H315
- Serious Eye Damage/Eye Irritation Category 2A — H319

Label elements

Hazard pictogram(s)	
Signal word	WARNING

Hazard statement(s)

- H290 — May be corrosive to metals.
- H302 — Harmful if swallowed.
- H315 — Causes skin irritation.
- H319 — Causes serious eye irritation.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

- P264 — Wash hands thoroughly after handling.
- P270 — Do not eat, drink or smoke when using this product.
- P234 — Keep only in original container.
- P280 — Wear protective gloves / protective clothing / eye protection / face protection.

Precautionary statement(s) Response

- 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.
- P302+P352 — IF ON SKIN: Wash with plenty of water.
- P332+P313 — If skin irritation occurs: Get medical advice.
- P301+P312 — IF SWALLOWED: Call a POISON CENTRE / doctor if you feel unwell.
- P330 — Rinse mouth.

Precautionary statement(s) Storage

- P404 — Store in a closed container.
- P406 — Store in a corrosion-resistant container.

Precautionary statement(s) Disposal

- P501 — Dispose of contents/container to an approved waste disposal plant.

Other hazards

Always add acid to water, never the reverse. Corrosive to metals on standing.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures.

Mixtures

CAS No.	% [weight]	Name	Classification
Not Provided (proprietary)	30 – 60	Proprietary acidic additives	Met. Corr. 1 (H290); Acute Tox. 4 (H302); Skin Irrit. 2 (H315); Eye Irrit. 2A (H319)
7732-18-5	Balance	Water	Not classified

SECTION 4 First aid measures

Description of first aid measures

Eye Contact

If in eyes, hold eyelids apart and flush continuously with running water for at least 15 minutes, or until advised to stop by a Poisons Information Centre / doctor.

Skin Contact

Immediately remove contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs, seek medical assistance.

Inhalation

Remove victim from exposure — avoid becoming a casualty. Keep at rest and warm. Seek medical advice if effects persist.

Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek immediate medical assistance. Contact the Poisons Information Centre (Australia 131 126; New Zealand 0800 764 766).

Most important symptoms and effects, both acute and delayed

Eye contact can cause corneal burns / serious irritation. Skin contact causes irritation / burns. Ingestion causes nausea, vomiting and chemical burns to the GI tract. Inhalation of mists causes respiratory irritation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Can cause corneal burns. 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

Not combustible. Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder) appropriate to the surrounding fire.

Special hazards arising from the substance or mixture

Fire Incompatibility

Decomposes on heating emitting toxic fumes including aluminium oxide and hydrogen chloride.

Advice for firefighters

Fire Fighting

Wear self-contained breathing apparatus (SCBA) and suitable protective clothing if risk of exposure to decomposition products.

Fire / Explosion Hazard

Non-combustible aqueous acidic product. Not a significant fire hazard.

HAZCHEM Code	None allocated
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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 respiratory protection. Avoid breathing vapours / mist / gas. Ensure adequate ventilation. Evacuate non-essential personnel.

Environmental precautions

Prevent product entering drains or waterways. If contamination occurs, advise local emergency services. See Section 12.

Methods and material for containment and cleaning up

Minor Spills

Slippery when spilt — clean up immediately. Wear PPE. Contain and prevent run-off. Use inert absorbent. Neutralise cautiously with lime or soda ash. Collect and seal in labelled containers for disposal per Section 13. Wash area with excess water.

Major Spills

Isolate and ventilate; work upwind. Wear full PPE. Contain, neutralise, absorb and collect as above. Notify the Environmental Protection Authority.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

Avoid skin and eye contact and breathing in vapour / mists / aerosols. Keep out of reach of children. Always add the acid to water, never the reverse. Use PPE per Section 8.

Other information

Do NOT store in aluminium or galvanised containers. Keep containers closed when not in use.

Conditions for safe storage, including any incompatibilities

Suitable container

Store in a closed, corrosion-resistant container in a cool place out of direct sunlight. Do NOT use aluminium or galvanised containers.

Storage incompatibility

Incompatible with alkalis, oxidising agents, chlorates, chlorites, permanganates, cyanides, calcium hypochlorite and many metals. Will slowly corrode metals on standing. Store away from foodstuffs."

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	Proprietary acidic additives	High Silica Antiscalant (as supplied)	Not assigned in SWA WEL 2024	Not assigned in SWA WEL 2024	Not assigned in SWA WEL 2024	No workplace exposure limit allocated for the product or its proprietary components.
SWA WEL 2024	Water	Water (component)	Not applicable	Not applicable	Not applicable	Water — no exposure limit defined.

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
High Silica Antiscalant	Not established (DOE PAC)	Not established (DOE PAC)	Not established (DOE PAC)
Ingredient	Original IDLH		Revised IDLH
High Silica Antiscalant	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

Wear protective gloves (nitrile / PVC, per AS/NZS 2161), protective clothing, safety footwear and splash apron appropriate to the risk. Inspect gloves before use; dispose of contaminated gloves and wash hands. Tightly-fitting safety glasses or full face shield.

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	Liquid — pale yellow
Physical state	Liquid
Odour	Mild
Odour threshold	No data available in source SDS
pH (as supplied)	2.0 – 3.0 @ 25 °C
Melting point / freezing point (°C)	-12 °C
Initial boiling point and boiling range (°C)	No data available in source SDS
Flash point (°C)	Not applicable — non-combustible aqueous product
Evaporation rate	No data available in source SDS
Flammability	Not flammable
Upper Explosive Limit (%)	Not applicable — non-flammable
Lower Explosive Limit (%)	Not applicable — non-flammable
Vapour pressure (kPa)	No data available in source SDS (≈ water)
Solubility in water	Miscible
Vapour density (Air = 1)	No data available in source SDS
Relative density (Water = 1)	1.0 – 1.20 @ 25 °C
Partition coefficient n-octanol/water	Not applicable (mixture)
Auto-ignition temperature (°C)	Not applicable — non-combustible
Decomposition temperature (°C)	No data available in source SDS
Viscosity (cSt)	Not Provided
Molecular weight (g/mol)	Not applicable (mixture)
Taste	Not applicable — do not taste
Explosive properties	None known
Oxidising properties	None known
Surface Tension (dyn/cm or mN/m)	No data available in source SDS
Volatile Component (% vol)	Water is the main volatile fraction
Gas group	Not applicable
pH as a solution (1%)	Acidic (~3)
VOC g/L	Low — water-based acidic blend; no specific value in source SDS

SECTION 10 Stability and reactivity

Reactivity	Reacts with chlorates and chlorites. Will slowly corrode metals on standing. See Section 7.
Chemical stability	Stable under recommended storage conditions. Hygroscopic.
Possibility of hazardous reactions	Reacts with calcium hypochlorite, acids and alkalis. Hazardous polymerisation will not occur.
Conditions to avoid	Heat; ignition sources; moisture; direct sunlight.
Incompatible materials	See Section 7. Alkalis; oxidisers; chlorates / chlorites; permanganates; cyanides; many metals.
Hazardous decomposition products	See Section 5. Hydrogen chloride; chlorine gas; oxides of aluminium and chlorine.

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled

Breathing in mists / aerosols produces respiratory irritation.

Ingestion

Causes nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the GI tract.

Skin Contact

Causes skin irritation (H315); may cause burns.

Eye

Serious eye irritant (H319); contact can cause corneal burns.

Chronic

No specific chronic-effect data for the product in the source SDS.

Per-ingredient toxicity

Ingredient	TOXICITY	IRRITATION
High Silica Antiscalant (proprietary additives)	Oral LD50 (rat): 681 mg/kg; Oral LD50 (mouse): 316 mg/kg	Skin / eye irritant; corrosive to eyes
Water	Not applicable	Not applicable

Hazard checklist (whole-product classification basis)

Hazard endpoint	Classified	Hazard endpoint	Classified
Acute Toxicity	✓	Carcinogenicity	—
Skin Irritation/Corrosion	✓	Reproductive Toxicity	—
Serious Eye Damage/Irritation	✓	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

Absorbed by inhalation of aerosol, ingestion, skin and / or eye contact.

Additional Information

RTECS	MW4025000
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SECTION 12 Ecological information

Toxicity

Ingredient	Endpoint	Test Duration	Species	Value	Source
High Silica Antiscalant (mixture)	No data available in source SDS	Not Provided	Not Provided	No quantitative data — acidic; avoid waterway contamination	AGent SDS (no value)
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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
High Silica Antiscalant (mixture)	No data available in source SDS. Inorganic acidic components neutralise on dilution / contact with alkalinity.	Not applicable — aqueous product.

Bioaccumulative potential

Ingredient	Bioaccumulation
High Silica Antiscalant (mixture)	No data available in source SDS; significant bioaccumulation not expected.

Mobility in soil

Ingredient	Mobility
High Silica Antiscalant (mixture)	High mobility in water (miscible).

Other adverse effects

Acidic — may depress pH of receiving waters. Avoid uncontrolled discharge to waterways, drains and sewers.

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.
- Neutralise cautiously before disposal; dispose of in accordance with local, state and federal regulations.

SECTION 14 Transport information

Labels Required	Not Applicable — Not a Dangerous Good
Marine Pollutant	No
HAZCHEM Code	None allocated

Land transport (ADG)

UN number	Not Applicable — Not classified as a Dangerous Good
UN proper shipping name	High Silica Antiscalant (Not classified as a Dangerous Good)
Transport hazard class(es)	Not classified as a Dangerous Good by the criteria of the ADG Code for transport by road or rail
Packing group	Not Applicable
Environmental hazard	Not Applicable
Special precautions for user	None allocated — Not a Dangerous Good.
ERG / EIP number	Not Applicable — Not a Dangerous Good

Air transport (ICAO-IATA / DGR)

UN number	Not Applicable — Not classified as a Dangerous Good
UN proper shipping name (lowercase)	High Silica Antiscalant (Not classified as a Dangerous Good)
ICAO/IATA Class	Not classified as a Dangerous Good by the criteria of the IATA Code for transport by air
Packing group	Not Applicable
Environmental hazard	Not Applicable
Special provisions	Not Applicable — Not a Dangerous Good.
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	Not Applicable — Not classified as a Dangerous Good
UN proper shipping name	High Silica Antiscalant (Not classified as a Dangerous Good)
IMDG Class	Not classified as a Dangerous Good by the criteria of the IMDG Code for transport by sea
Packing group	Not Applicable
Environmental hazard	Not a Marine Pollutant
EMS Number	Not Applicable — Not a Dangerous Good
Special provisions	Not Applicable — Not a Dangerous Good.

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
High Silica Antiscalant	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
High Silica Antiscalant	Not Applicable — AGen 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**

The components of High Silica Antiscalant are assessed against the following regulatory lists:

- Australia Hazardous Chemical Information System (HCIS): Not listed - Proprietary blend
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Not listed
- Australian Inventory of Industrial Chemicals (AIIC): Components listed / in compliance
- 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 — AGen does not export this product
Canada (NDSL)	Not applicable — AGen does not export this product
China (IECSC)	Not applicable — AGen does not export this product
Europe (EINECS / ELINCS / NLP)	Not applicable — AGen does not export this product
Japan (ENCS)	Not applicable — AGen does not export this product
Korea (KECI)	Not applicable — AGen does not export this product
New Zealand (NZIoC)	Not applicable — AGen does not export this product
Philippines (PICCS)	Not applicable — AGen does not export this product
USA (TSCA)	Not applicable — AGen does not export this product
Taiwan (TCSI)	Not applicable — AGen does not export this product
Mexico (INSQ)	Not applicable — AGen does not export this product
Vietnam (NCI)	Not applicable — AGen does not export this product
Russia (FBEPH)	Not applicable — AGen 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 legacy (unversioned) to AGent 2026 layout. Normalised non-AU GHS codes (H305/H316/H320) to AU-adopted categories (H302/H315/H319) plus H290; signal word WARNING, GHS05+GHS07. Removed superseded legacy abbreviations and exposure-standard references; AICS updated to AIIC. Non-DG.
Legacy (unversioned, AGent format)	March 2023	Older format. Acidic RO antiscalant; Non-Dangerous Goods.

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
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