



Sodium Hypochlorite Solution 1-5% - Bleach

AGent

AGent SDS: Sodium hypochlorite solution 1-5% - Bleach [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	Sodium hypochlorite solution 1-5% - Bleach
Chemical Name	Sodium hypochlorite solution (1-5%)
Synonyms	Liquid bleach; hypochlorite solution
Proper shipping name	HYPOCHLORITE SOLUTION (1-5% sodium hypochlorite — Not classified as a Dangerous Good)
Chemical formula	NaOCl (1-5%) in water
Other means of identification	Sodium hypochlorite solution 1-5% - Bleach [2026.01]

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

Identified uses	Sanitising and bleaching agent; swimming pool and spa disinfectant; water purification; oxidising agent.
Uses advised against	Do NOT mix with acids or ammonia. Not for human consumption.

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 (dilute 1-5% hypochlorite). Scheduled Poison S5. Skin / eye irritant; very toxic to aquatic life.

Poisons Schedule (SUSMP)	Schedule 5 (S5) — SUSMP
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Classification

- Skin Corrosion/Irritation Category 2 — H315
- Serious Eye Damage/Eye Irritation Category 2A — H319
- Hazardous to the Aquatic Environment (Acute) Category 1 — H400

Label elements

Hazard pictogram(s)	
Signal word	WARNING

Hazard statement(s)

- H315 — Causes skin irritation.
- H319 — Causes serious eye irritation.
- H400 — Very toxic to aquatic life.

Supplementary statement(s)

EUH031 — Contact with acids liberates toxic gas (chlorine).

Precautionary statement(s) Prevention

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

Precautionary statement(s) Response

- P302+P352 — IF ON SKIN: Wash with plenty of soap and water.
- P332+P313 — If skin irritation occurs: Get medical advice.
- P362+P364 — Take off contaminated clothing and wash 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.
- P391 — Collect spillage.

Precautionary statement(s) Storage

- P405 — Store locked up. Store cool, upright and away from acids and ammonia.

Precautionary statement(s) Disposal

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

Other hazards

Contact with acids liberates toxic chlorine gas. Reaction with formic acid becomes explosive at 55 °C. Available chlorine diminishes over time.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures.

Mixtures

CAS No.	% [weight]	Name	Classification
7681-52-9	1 – 5	Sodium hypochlorite	Skin Corr. 1C (H314); Eye Dam. 1; Aquatic Acute 1 (H400) — diluted to Skin/Eye Irrit. 2 at product strength
7732-18-5	Balance	Water	Not classified

SECTION 4 First aid measures

Description of first aid measures

Eye Contact

Check for and remove any contact lenses. Immediately rinse thoroughly with plenty of running water for at least 15 minutes, keeping eyelids open. Seek immediate medical assistance — can cause corneal burns.

Skin Contact

Remove contaminated clothing and wash affected areas with soap and running water for at least 15 minutes. Consult a doctor. Launder clothing before reuse.

Inhalation

Remove from contaminated area — avoid becoming a casualty (use a Type B / air-line respirator to protect rescuer). Apply artificial respiration if not breathing. Seek immediate medical advice.

Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Antacids may buffer the hypochlorous acid. 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 causes irritation, lacrimation, pain and possible corneal burns. Skin contact causes irritation / possible burns. Ingestion causes burns to the mouth / throat, nausea and vomiting. Inhalation of mist / liberated chlorine causes respiratory irritation; delayed pulmonary oedema possible.

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

Non-combustible. Water fog (or fine water spray), normal foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture**Fire Incompatibility**

Decomposes on heating emitting toxic chlorine fumes. Contact with acids liberates chlorine gas.

Advice for firefighters**Fire Fighting**

Wear self-contained breathing apparatus (SCBA) and suitable protective clothing.

Fire / Explosion Hazard

Non-combustible aqueous product. Toxic chlorine evolution if heated or acidified.

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.

Slippery when spilt — clean up immediately. Evacuate non-essential personnel. Wear PPE to prevent skin / eye contact and breathing vapours. Work upwind / increase ventilation.

Environmental precautions

Very toxic to aquatic life — 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**

Contain and prevent run-off to drains and waterways. Use inert absorbent (soil, sand). Collect and seal in labelled containers for disposal per Section 13.

Major Spills

Isolate the area; work upwind. Wear full PPE. Contain, absorb and collect as above. Do NOT mix with acids. Notify the Environmental Protection Authority.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour / mist / aerosol. Keep out of reach of children. Do NOT mix with acids or ammonia. Use PPE per Section 8.

Other information

Store upright, vented and sealed; check regularly for leaks. Available chlorine diminishes over time.

Conditions for safe storage, including any incompatibilities

Suitable container

Store in a secured, cool, dry, well-ventilated area, upright and sealed, away from reducing agents, acids, organics, amines, metals, heat / ignition sources and foodstuffs.

Storage incompatibility

Incompatible with acids, metals, metal salts, peroxides, reducing agents, EDTA, ammonia and ammonium compounds (forms toxic chloramines). Store away from incompatible materials (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	Chlorine (liberated on acidification / decomposition)	Chlorine (CAS 7782-50-5)	Not assigned (peak limitation applies)	Not assigned in SWA WEL 2024	1 ppm (2.9 mg/m ³) — peak limitation	SWA WEL 2024 chlorine Peak Limitation 1 ppm.
SWA WEL 2024	Sodium hypochlorite	Sodium hypochlorite (CAS 7681-52-9)	Not assigned in SWA WEL 2024	Not assigned in SWA WEL 2024	Not assigned in SWA WEL 2024	No workplace exposure limit assigned to sodium hypochlorite.

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
Sodium hypochlorite	Not established (DOE PAC)	Not established (DOE PAC)	Not established (DOE PAC)
Ingredient	Original IDLH		Revised IDLH
Sodium hypochlorite	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 long chemical-resistant gloves (nitrile / neoprene, per AS/NZS 2161) and protective clothing (splash apron, rubber boots). Inspect gloves before use; dispose of contaminated gloves and wash hands. Face shield / splash goggles.

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 — clear, pale yellow to green
Physical state	Liquid
Odour	Chlorine
Odour threshold	No data available in source SDS
pH (as supplied)	No data available in source SDS (alkaline)
Melting point / freezing point (°C)	No data available in source SDS
Initial boiling point and boiling range (°C)	> 100 °C
Flash point (°C)	Not applicable — non-flammable aqueous product
Evaporation rate	No data available in source SDS
Flammability	Non-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)	1.007 – 1.075
Partition coefficient n-octanol/water	Not applicable — ionic
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 (but explosive reaction with formic acid at 55 °C)
Oxidising properties	Oxidising (hypochlorite)
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%)	Alkaline (~11)

VOC g/L	0 g/L — inorganic; no VOC
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SECTION 10 Stability and reactivity

Reactivity	Contact with acids liberates toxic chlorine gas. Reaction with formic acid explosive at 55 °C. See Section 7.
Chemical stability	Stable under normal conditions; available chlorine diminishes over time.
Possibility of hazardous reactions	Polymerisation is not expected to occur. Forms toxic chloramines with ammonia / amines.
Conditions to avoid	Heat; sparks; open flames; ignition sources; acids; sunlight.
Incompatible materials	See Section 7. Acids; metals; metal salts; peroxides; reducing agents; EDTA; ammonia / ammonium compounds.
Hazardous decomposition products	See Section 5. Toxic chlorine gas when heated or acidified.

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled

Over-exposure to mist / liberated chlorine causes respiratory irritation, coughing and possible burns; high exposure may cause chemical pneumonitis and pulmonary oedema (delayed up to 48 h).

Ingestion

May cause burns to the mouth and throat, nausea, vomiting and GI ulceration.

Skin Contact

Causes skin irritation (H315); prolonged contact may cause ulceration.

Eye

Serious eye irritant (H319); can cause corneal burns and permanent injury.

Chronic

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

Per-ingredient toxicity

Ingredient	TOXICITY	IRRITATION
Sodium hypochlorite (component)	Oral LD50 (rat): ~5,800 mg/kg (sodium hypochlorite solution)	Skin / eye irritant at product strength; corrosive when concentrated
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 ingestion, inhalation of vapour / mist / aerosol and skin contact.

Additional Information

RTECS	Not available (mixture)
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SECTION 12 Ecological information

Toxicity

Ingredient	Endpoint	Test Duration	Species	Value	Source
Sodium hypochlorite	Aquatic Acute 1 (H400)	General	Aquatic organisms (fish / invertebrates)	Very toxic to aquatic life (sodium hypochlorite LC50 typically < 1 mg/L; M-factor 10)	AGent SDS (\$12.5) + GHS Annex M-factor
Sodium hypochlorite	Degradation	Not applicable	Not applicable	Non-persistent — decomposes to salt and oxygen	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
Sodium hypochlorite	Non-persistent — hypochlorite gradually decomposes to chloride and oxygen.	Not applicable — aqueous product (chlorine evolution only on acidification).

Bioaccumulative potential

Ingredient	Bioaccumulation
Sodium hypochlorite	No accumulation potential — decomposes to salt and oxygen.

Mobility in soil

Ingredient	Mobility
Sodium hypochlorite	High mobility in water; reactive — dissipates by decomposition.

Other adverse effects

Very toxic to aquatic life (H400). Avoid all 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.
- Dispose of in accordance with local, state and federal regulations. Neutralise / de-chlorinate residual product before disposal.

SECTION 14 Transport information

Labels Required	Not Applicable — Not a Dangerous Good
Marine Pollutant	No (at product strength)
HAZCHEM Code	None allocated

Land transport (ADG)

UN number	Not Applicable — Not classified as a Dangerous Good (dilute 1-5% hypochlorite)
UN proper shipping name	HYPOCHLORITE SOLUTION (1-5% sodium hypochlorite — 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 (dilute hypochlorite below the Class 8 / Class 9 thresholds)
Packing group	Not Applicable
Environmental hazard	Aquatic toxicity noted
Special precautions for user	None allocated — Not a Dangerous Good at product strength.
ERG / EIP number	Not Applicable — Not a Dangerous Good

Air transport (ICAO-IATA / DGR)

UN number	Not Applicable — Not classified as a Dangerous Good (dilute 1-5% hypochlorite)
UN proper shipping name (lowercase)	HYPOCHLORITE SOLUTION (1-5% sodium hypochlorite — 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 at product strength.
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 (dilute 1-5% hypochlorite)
UN proper shipping name	HYPOCHLORITE SOLUTION (1-5% sodium hypochlorite — 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	Verify Marine Pollutant status at product strength on issue

EMS Number	Not Applicable — Not a Dangerous Good at product strength
Special provisions	Not Applicable — Not a Dangerous Good at product strength.

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
Sodium hypochlorite solution 1-5% - Bleach	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
Sodium hypochlorite solution 1-5% - Bleach	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

SODIUM HYPOCHLORITE (CAS 7681-52-9) is found on / assessed against the following regulatory lists:

- Australia Hazardous Chemical Information System (HCIS): Skin Corr. 1 / Eye Dam. 1 / Aquatic Acute 1 (concentrated) —
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5 (S5) at product strength
- 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 — 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 V1.3 to AGent 2026 layout. §8 updated to SWA WEL 2024 (chlorine peak); removed superseded legacy abbreviations and exposure-standard references; AICS updated to AIIC. Added Aquatic Acute 1 (H400 / GHS09) per the hypochlorite M-factor and legacy §12 'very toxic to aquatic life'. Non-DG; S5.
V1.3 (legacy AGent format)	March 2023	Older format. Skin Irrit. 2 / Eye Irrit. 2A; Non-Dangerous Goods; S5 (aquatic hazard not previously on the label).

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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