

Document ref.	Version	Revision date	Supersedes
SSS-SDS-003	1.0	October 2026	Sani-99 SteriDrain Pro MSDS NH (Anhydrous Powder/Solution), rev. 15 Sep 2025

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name	SANI-99™ SteriDrain Pro
Product form	Water-soluble powder (mixture)
UFI	N5U0-V9G1-K00G-4MDC
Pack sizes	15g sachet; 4, 10 and 25 sachet packs
Directions for use	Option A (recommended) – dilute solution: dissolve 1 × 15g sachet in 1 litre of warm water (40–50°C), mix thoroughly and pour into the drain. Option B – direct application: pour 1 × 15g sachet directly into the drain, then flush with warm water for 10–15 seconds to activate. Contact time: minimum 5 minutes (routine use), up to 15 minutes (high-risk or heavily contaminated systems); then flush thoroughly with warm water.

1.2 Relevant identified uses and uses advised against

Identified use: drain disinfectant (PT2) – disinfection of drains, sinks, traps, gullies and associated pipework in healthcare, hospitality, food production and commercial settings. Professional and non-professional use.

Uses advised against: not for use on general surfaces. Do not mix with other chemicals, drain cleaners or disinfectants.

1.3 Details of the supplier of the safety data sheet

Manufacturer	Scientific Sanitation Solutions (Pty) Ltd, Unit 7, 67 Regency Drive, Route 21 Corporate Park, Irene, Pretoria, 0178, South Africa
UK supplier	Scientific Sanitation Solutions Ltd, Granite House, Unit 1, Greaves Hall Industrial Estate, Greaves Hall Avenue, East Banks, Southport, PR9 8SR, United Kingdom
Telephone	+44 (0)203 747 0599
Email	info@scisan.co.uk
Website	www.scisan.co.uk

1.4 Emergency telephone number

Scientific Sanitation Solutions Ltd (UK)	+44 (0)203 747 0599 (Monday to Friday, 09:00–17:30)
Medical advice – members of the public	NHS 111 (England and Wales) or NHS 24 on 111 (Scotland)
Healthcare professionals only	UK National Poisons Information Service (NPIS) via TOXBASE or 0344 892 0111

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Hazard class and category	Hazard statement
Oxidising solid, Category 3 (Ox. Sol. 3)	H272
Acute toxicity (oral), Category 4 (Acute Tox. 4)	H302
Skin corrosion, Category 1B (Skin Corr. 1B)	H314
Serious eye damage, Category 1 (Eye Dam. 1)	H318
Respiratory sensitisation, Category 1 (Resp. Sens. 1)	H334
Skin sensitisation, Category 1 (Skin Sens. 1)	H317
Specific target organ toxicity – single exposure, Category 3 (STOT SE 3), respiratory tract irritation	H335
Hazardous to the aquatic environment – chronic, Category 3 (Aquatic Chronic 3)	H412

2.2 Label elements

Packaging	Sachets carry a tactile warning of danger.
Signal word	Danger
Hazard pictograms	GHS03 (flame over circle), GHS05 (corrosion), GHS07 (exclamation mark), GHS08 (health hazard)



GHS03
Flame over circle



GHS05
Corrosion



GHS07
Exclamation mark



GHS08
Health hazard

Hazard statements

Code	Hazard statement
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Code	Precautionary statement
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep away from clothing and other combustible materials.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE/doctor.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTRE/doctor.
P501	Dispose of contents/container in accordance with local regulations.

UFI: N5U0-V9G1-K00G-4MDC

2.3 Other hazards

This mixture does not contain components considered to be PBT or vPvB at levels of 0.1% or higher. Oxidising: contact with combustible material may intensify a fire. May bleach fabrics and other materials in concentrated form. Use solution (Option A): 15g per litre (2.5 times the standard SANI-99™ dose). With direct application (Option B) the powder dissolves in the drain water and the warm-water flush.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Water-soluble powder: a blend of inorganic oxidising salts. Same formulation as SANI-99™.

Ingredient	CAS No.	EC No.	% w/w	Classification (GB CLP)
Potassium peroxymonosulfate (pentapotassium bis(peroxymonosulphate) bis(sulphate))	70693-62-8	274-778-7	8 – 10	Acute Tox. 4 H302+H312+H332; Skin Corr. 1B H314; Eye Dam. 1 H318; Aquatic Chronic 3 H412
Peracetic acid	79-21-0	201-186-8	10 – 12	Org. Perox. D H242; Acute Tox. 4 H302+H312+H332; Skin Corr. 1A H314; STOT SE 3 H335 (C ≥ 1%); Aquatic Acute 1 H400
Sodium persulfate	7775-27-1	231-892-1	48 – 50	Ox. Sol. 3 H272; Acute Tox. 4 H302; Skin Irrit. 2 H315; Eye Irrit. 2 H319; Resp. Sens. 1 H334; Skin Sens. 1 H317; STOT SE 3 H335

Ingredient	CAS No.	EC No.	% w/w	Classification (GB CLP)
Potassium persulfate	7727-21-7	231-781-8	30 – 32	Ox. Sol. 3 H272; Acute Tox. 4 H302; Skin Irrit. 2 H315; Eye Irrit. 2 H319; Resp. Sens. 1 H334; Skin Sens. 1 H317; STOT SE 3 H335

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Move the person to fresh air and keep at rest in a position comfortable for breathing. If breathing symptoms (coughing, wheezing, breathing difficulty) develop, get medical advice.
Skin contact	Remove contaminated clothing immediately. Brush off loose powder, then rinse the skin with plenty of water for at least 15 minutes. If skin irritation or a rash occurs, get medical advice.
Eye contact	Rinse immediately with plenty of water for at least 15 minutes, holding the eyelids open. Remove contact lenses if present and easy to do, then continue rinsing. Get medical attention immediately.
Ingestion	Rinse the mouth with water. Do not induce vomiting. Give a glass of water to drink if the person is conscious. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Burns and serious eye damage. Irritation of the respiratory tract if dust is inhaled. May cause an allergic skin reaction, and allergy or asthma symptoms if dust is inhaled by sensitised people. Harmful if swallowed. Effects of exposure may be delayed.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Eye contact with the powder requires immediate medical attention.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable	Water – water spray or flooding quantities of water.
Unsuitable	Carbon dioxide, dry chemical powder and other smothering agents. The product releases oxygen when heated, so smothering does not put the fire out.

5.2 Special hazards arising from the substance or mixture

The product itself is not combustible, but as an oxidiser it may intensify a fire in contact with combustible materials. On heating it decomposes, releasing oxygen and sulphur oxides.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and suitable protective clothing. Cool containers exposed to fire with water spray. Prevent fire-fighting water from entering drains or watercourses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid creating and breathing dust. Avoid contact with eyes and skin. Wear the personal protective equipment described in Section 8. Keep unprotected people away.

6.2 Environmental precautions

Prevent concentrated product from entering drains, sewers or watercourses. Inform the relevant authorities if large quantities are released.

6.3 Methods and material for containment and cleaning up

Sweep up carefully without creating dust and place in a clean, dry, labelled container for disposal. Keep away from combustible materials such as sawdust, paper or cloth. Do not return spilled product to the original container. Rinse remaining residue away with plenty of water.

6.4 Reference to other sections

See Section 8 for personal protection and Section 13 for disposal.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes and skin and avoid creating or breathing dust. Keep away from heat and combustible materials. Use clean, dry utensils and never return unused product to its container. Add the product to water as directed on the label. Do not mix with other chemicals, disinfectants or cleaning products. Do not eat, drink or smoke when handling. Wash hands after use.

Option A – dilute solution (recommended): dissolve one sachet in 1 litre of warm water (40–50°C) in an open container immediately before use and pour slowly into the drain. Do not use boiling water. Do not store made-up solution or seal it in a closed bottle.

Option B – direct application: open the sachet close to the drain opening and pour the powder slowly and directly into the drain to avoid creating dust, then flush with warm water for 10–15 seconds. Wear gloves and eye protection, as the neat powder is being handled.

Leave for the contact time (5–15 minutes) without flushing, then flush thoroughly with warm water.

7.2 Conditions for safe storage, including any incompatibilities

Store in the original packaging, sachets kept sealed until use; use the whole sachet once opened. Store in a cool, dry, well-ventilated place below 40°C, out of direct sunlight and away from moisture. Store away from combustible materials, reducing agents, alkalis and metal salts. Keep out of reach of children. Suitable packaging materials: polyethylene, polypropylene, PVC, glass, triple-foil laminate.

7.3 Specific end use(s)

See Section 1.2 and the product label / instructions for use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

UK WELs (EH40/2005)	None listed for potassium peroxymonosulfate, sodium persulfate, potassium persulfate or peracetic acid.
General dust limits (EH40/2005)	Inhalable dust 10 mg/m ³ ; respirable dust 4 mg/m ³ (8-hour TWA) – apply where no specific limit exists.
DNEL – sodium persulfate (workers, inhalation, long term)	0.824 mg/m ³ (supplier data)

Respiratory sensitiser	Persulfates are respiratory sensitisers (asthmagens). Under COSHH, exposure must be kept as low as reasonably practicable; consider health surveillance for staff who regularly handle the powder.
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8.2 Exposure controls

Use local exhaust ventilation where dust may be generated. An eye wash station should be available where the powder is handled.

Eye / face protection	Tight-fitting safety goggles (EN 166) whenever handling the powder.
Hand protection	Chemical-resistant gloves (e.g. nitrile, PVC or rubber) conforming to EN ISO 374.
Skin / body protection	Suitable protective clothing. Remove and wash contaminated clothing before reuse.
Respiratory protection	Where dust may be generated, wear a particulate respirator with P3 filter (EN 143) or an FFP3 mask (EN 149). P3/FFP3 rather than P2 because the persulfates are respiratory sensitisers.
Working solution	Option A: wear gloves (EN ISO 374) and safety glasses (EN 166) when making up and pouring the solution – at 15 g/l it is a skin and respiratory sensitiser by calculation. Pour gently and avoid splashes or mist. Option B (direct application of the powder): gloves and safety goggles; avoid creating dust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state / appearance	White crystalline powder
Odour	Odourless
pH	2.2–2.7 (0.6% solution – the standard 6g/L dose)
Melting point / range	ca. 180°C at 1,013 hPa
Boiling point	Not applicable
Flash point	Not applicable
Flammability	Not flammable (oxidiser)
Oxidising properties	Oxidising solid (Ox. Sol. 3, H272)
Bulk density	1,100–1,680 kg/m ³
Solubility in water	approx. 72 g/l (20°C)
Active oxygen content	approx. 4.5%
pH (use solution, 15g/L)	approx. 2.0–2.4 (may be lower depending on the water used)
Odour threshold	Not applicable (odourless)
Initial boiling point	Not applicable (decomposes)
Lower / upper explosion limits	Not applicable
Auto-ignition temperature	Not applicable

Decomposition temperature	Not determined for the mixture. Ingredients: potassium persulfate decomposes from approx. 100°C; sodium persulfate SADT 180°C
Kinematic viscosity	Not applicable (solid)
Partition coefficient (n-octanol/water)	Not applicable (inorganic salts)
Vapour pressure	Not applicable
Relative density	Not determined
Relative vapour density	Not applicable
Particle characteristics	Not determined (blend of crystalline powders); contains a fine dust fraction – avoid creating dust.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Oxidising agent. Decomposes on heating, in the presence of moisture and in contact with incompatible materials.

10.2 Chemical stability

Stable under the recommended storage conditions. Shelf life: 4 years from date of manufacture in the original sealed sachet. Prepare the use solution immediately before use; do not store made-up solution.

10.3 Possibility of hazardous reactions

Contact with reducing agents or combustible materials may cause a fire or intensify an existing fire.

10.4 Conditions to avoid

Heat (above 40°C), direct sunlight, moisture and humidity, contamination.

10.5 Incompatible materials

Reducing agents, combustible materials, alkalis, metal powders, metal salts and heavy-metal ions. Do not mix with other disinfectants, chlorine-based products, alcohol sanitisers or cleaning detergents.

10.6 Hazardous decomposition products

Oxygen and sulphur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Endpoint	Result
Acute oral toxicity	LD50 = 1,204 mg/kg (rat, literature)
Acute dermal toxicity	LD50 > 11,000 mg/kg (rabbit, literature)
Acute inhalation toxicity	LC50 > 5 mg/l/4h (rat, literature)
Skin corrosion / irritation	Corrosive (rabbit, OECD 404) – Skin Corr. 1B (H314).
Serious eye damage / irritation	Highly irritating (rabbit, literature) – Eye Dam. 1 (H318).
Respiratory sensitisation	Contains persulfates (respiratory sensitisers, known occupational asthmagens) above the classification limit – Resp. Sens. 1 (H334).
Skin sensitisation	Contains persulfates (skin sensitisers) above the classification limit – Skin Sens. 1 (H317).

Endpoint	Result
Germ cell mutagenicity	Ames test (Salmonella typhimurium): negative (literature)
Carcinogenicity	None of the components are classified as carcinogenic.
Reproductive toxicity	None of the components are classified as toxic to reproduction.
STOT – single exposure	May cause respiratory irritation (H335).
STOT – repeated exposure	Inhalation (dust), rat, 2 weeks: NOEL 0.043 mg/l; target organ – eye (irritating effect).
Aspiration hazard	Not applicable (solid).

Working solution at use dilution

At the use strength (15g per litre) the solution is not acutely toxic (oral, dermal or inhalation) and not corrosive or irritating to skin or eyes. Because the persulfates are approx. 1.2% – just above the 1% limit – it is classified by calculation as a skin and respiratory sensitiser (H317, H334), so gloves and eye protection are advised when pouring (Section 8). Once flushed into the drain it is diluted further and is no longer classified.

11.2 Information on other hazards

No endocrine-disrupting properties are known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicological values for potassium peroxymonosulfate (from the EU Biocides Competent Authority Report):

Test	Result
Fish – acute (Danio rerio, 96 h, OECD 203)	LC50 > 32 mg/l and < 56 mg/l
Aquatic invertebrates – acute (Daphnia magna, 24 h, OECD 202)	EC50 = 5.3 mg/l
Aquatic invertebrates (Daphnia magna, 24 h, OECD 202)	NOEC = 1.8 mg/l

12.2 Persistence and degradability

The inorganic components hydrolyse and decompose to oxygen and sulphate salts. Peracetic acid decomposes to acetic acid, water and oxygen.

12.3 Bioaccumulative potential

Not expected to bioaccumulate.

12.4 Mobility in soil

Soluble in water; mobile in the aquatic environment.

12.5 Results of PBT and vPvB assessment

Does not contain substances assessed as PBT or vPvB at 0.1% or higher.

12.6 Endocrine-disrupting properties

Not known to contain endocrine disruptors.

12.7 Other adverse effects

Avoid release of the concentrated product to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of the product and any unused solution in accordance with local authority and water company requirements, or via a licensed waste contractor. Do not discharge concentrated product to drains or watercourses.

Packaging: empty sachets should not be reused. Dispose of or recycle in accordance with local requirements.

Unused or out-of-date product	16 09 04* – oxidising substances, not otherwise specified (hazardous waste)
Packaging with product residues	15 01 10* – packaging containing residues of hazardous substances
Empty, cleaned packaging	15 01 02 – plastic packaging (tubs/drums); 15 01 05 – composite packaging (foil-laminate sachets)

SECTION 14: TRANSPORT INFORMATION

	Road (ADR) / Sea (IMDG) / Air (IATA)
14.1 UN number	UN 3084
14.2 UN proper shipping name	CORROSIVE SOLID, OXIDIZING, N.O.S. (potassium peroxymonosulphate, sodium persulphate)
14.3 Transport hazard class(es)	8 (5.1)
14.4 Packing group	II
14.5 Environmental hazards	Not environmentally hazardous; not a marine pollutant
14.6 Special precautions for user	Keep away from combustible materials and heat. Pack sizes: inner packs of up to 1 kg (sachets and 1 kg tubs) can be carried as limited quantities (ADR 3.4) – no dangerous-goods paperwork, orange plates or ADR training needed, just the limited-quantity mark on the outer box (max. 30 kg gross per package). The full dangerous-goods requirements only apply to larger packs (5 kg tubs and above) and bulk consignments, and small loads of these can use the ADR 1.1.3.6 load exemption.
14.7 Maritime transport in bulk	Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific to the mixture

- UK REACH – retained Regulation (EC) No 1907/2006, as amended.
- GB CLP – retained Regulation (EC) No 1272/2008, as amended.
- Control of Substances Hazardous to Health Regulations 2002 (COSHH), as amended; EH40/2005 Workplace Exposure Limits.
- GB Biocidal Products Regulation (retained Regulation (EU) No 528/2012): the active substance, pentapotassium bis(peroxy monosulphate) bis(sulphate), is under review for product types PT2, PT3 and PT4 (dossier supported via Eurofins). The product may be marketed while the review is under way. HSE confirmed (December 2021) that no GB product authorisation is required until the active substance review is complete.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: OTHER INFORMATION

16.1 Revision history

Version	Date	Change
1.0	October 2026	First issue of the GB SDS (UK REACH Annex II format). Replaces Sani-99 SteriDrain Pro MSDS NH, rev. 15 Sep 2025.

Approved by	George Erasmus, R&D Director, Scientific Sanitation Solutions
Date of approval	October 2026

16.2 Full text of hazard statements

Code	Hazard statement
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

16.3 Abbreviations

CAS – Chemical Abstracts Service; EC – European Community number; GB CLP – retained Regulation (EC) No 1272/2008 as it applies in Great Britain; UK REACH – retained Regulation (EC) No 1907/2006 as it applies in the UK; GB BPR – retained Regulation (EU) No 528/2012 as it applies in Great Britain; COSHH – Control of Substances Hazardous to Health Regulations 2002 (as amended); WEL – Workplace Exposure Limit (EH40/2005); PBT/vPvB – persistent, bioaccumulative and toxic / very persistent and very bioaccumulative; PPE – personal protective equipment.

16.4 Disclaimer

The information in this safety data sheet is based on our current knowledge and is intended to describe SANI-99™ SteriDrain Pro for health, safety and environmental purposes only. It should not be construed as a guarantee of any specific property, quality or performance. Users must satisfy themselves that the product is suitable for their purpose and must carry out their own COSHH risk assessment. Where the product is sold on, the seller is responsible for passing this safety data sheet and appropriate instructions on correct use, dilution and risks to the end user.