SAFETY DATA SHEET

SunSPC – SWIMMING POOL CLEANER

Calcium hypochlorite, 70% min available chlorine · CAS 7778-54-3 · UN 1748

DANGER – STRONG OXIDISER. Never mix SunSPC with acids, ammonia, TCCA, other chlorine products or organic matter: contact releases toxic chlorine gas and can cause fire.

1. IDENTIFICATION

Product identifier	**SunSPC – Swimming Pool Cleaner** Calcium hypochlorite granules, pool grade, 70% min available chlorine **CAS:** 7778-54-3
Brand	Sun Brand™ of Suraj Chemicals
Recommended use	Chlorination, shock treatment and disinfection of swimming pool water. For industrial and institutional use only.
Uses advised against	Any use not listed above. Never mix with acids, ammonia, TCCA, other chlorine products or organic materials.
Supplier	**SURAJ CHEMICALS** 92 Govindappa Naicken Street, Shiva Complex, Chennai 600001, Tamil Nadu, India Tel: +91 70927 22822, +91 98402 84032 / +91 44 25393652, 42130281 Email: sales@surajchemicals.com · Web: www.surajchemicals.in GSTIN 33ACEPV8190L1ZZ
Emergency telephone	+91 70927 22822, +91 98402 84032

2. HAZARDS IDENTIFICATION

GHS classification

Classified under the Globally Harmonized System (GHS), based on published data for calcium hypochlorite at this available chlorine level.

Class	Hazard
Ox. Sol. 1	Oxidising solid, Category 1 (H271)
Acute Tox. 4	Acute oral toxicity, Category 4 (H302)
Skin Corr. 1B	Skin corrosion, Category 1B (H314)
Eye Dam. 1	Serious eye damage, Category 1 (H318)
STOT SE 3	Respiratory tract irritation, Category 3 (H335)
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1 (H400)
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1 (H410)

Signal word	**DANGER**
Pictograms	GHS03 (flame over circle) · GHS05 (corrosion) · GHS07 (exclamation mark) · GHS09 (environment)

Hazard statements	H271 May cause fire or explosion; strong oxidiser. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	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. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves, protective clothing, eye protection and face 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. 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 or doctor. P370+P378 In case of fire: use large quantities of water to extinguish. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents and container in line with local hazardous waste rules.
Other hazards	Contact with acids, ammonia, TCCA or organic and combustible materials releases toxic chlorine gas and may cause fire or explosion.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	Calcium hypochlorite, granular pool grade

Components

Identification	Name and classification	Content
CAS 7778-54-3 EC 231-908-7	Calcium hypochlorite – Ox. Sol. 1 H271; Acute Tox. 4 H302; Skin Corr. 1B H314; Eye Dam. 1 H318; STOT SE 3 H335; Aquatic Acute 1 H400; Aquatic Chronic 1 H410	Available chlorine 70% min
–	Inorganic calcium salts from manufacture (calcium chloride, calcium hydroxide, calcium carbonate)	Balance
CAS 7732-18-5	Water	0.30% max

4. FIRST-AID MEASURES

General	Get medical help immediately and show this Safety Data Sheet.
Inhalation	Move the person to fresh air and keep at rest. If breathing is difficult, give oxygen if trained to do so. Get medical attention.
Skin contact	Remove contaminated clothing and footwear at once. Rinse skin with plenty of water for at least 15 minutes. Get medical attention; burns may develop.
Eye contact	Rinse with plenty of water for at least 15 minutes, holding the eyelids open. Remove contact lenses if easy to do. Get medical attention immediately.

Ingestion	Rinse mouth with water. Do NOT induce vomiting. Give water to drink if the person is conscious. Get medical attention immediately.
Main symptoms	Burns to skin, eyes and mucous membranes; coughing and breathing difficulty from dust or chlorine gas. Lung effects from chlorine may be delayed.
Note to physician	Treat symptomatically. Keep chlorine-exposed patients under observation for delayed pulmonary oedema.

5. FIRE-FIGHTING MEASURES

Extinguishing media	**Suitable:** flood with large quantities of water only. **Unsuitable:** dry chemical, foam and carbon dioxide; they do not stop an oxidiser-fed fire and may react.
Specific hazards	Strong oxidiser. Not combustible itself but greatly intensifies fire. Heat above about 175 °C, or contamination, can start self-accelerating decomposition, releasing oxygen and chlorine gas. Sealed drums may burst when heated.
Advice for fire-fighters	Evacuate the area and approach from upwind. Wear self-contained breathing apparatus and full chemical protective clothing. Cool drums with water spray from a safe distance. A small amount of water can worsen the reaction; use large quantities.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Keep unprotected people away. Avoid breathing dust. Wear the protective equipment in Section 8.
Environmental precautions	Keep out of drains, surface water and soil. Very toxic to aquatic life. Inform the authorities after a large release.
Clean-up	Do not use sawdust, cloth or other combustible absorbents. Sweep up with clean, dry, non-sparking tools into a clean, dry, labelled container. Never return spilt material to the original drum. Keep away from incompatible materials.

7. HANDLING AND STORAGE

Safe handling	Use clean, dry scoops kept only for this product. Always add SunSPC to water, never water to SunSPC. Dissolve in a bucket before dosing; never put dry granules into the pool. Do not eat, drink or smoke while handling; wash hands afterwards.
Storage	Keep the 25 kg drum tightly closed in a cool, dry, well-ventilated, shaded place, off the floor. Keep away from heat, flames, oils, organic materials, acids, ammonia and other pool chemicals. Store locked up and out of the reach of children.

Condition	Guide
Temperature	Below 35 °C; avoid direct sun and heat sources
Shelf life	Use within 3 to 6 months of manufacture; available chlorine falls slowly in storage
Moisture	Keep sealed; damp product decomposes faster

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Substance	Limit	Value
Chlorine (gas that may be released), CAS 7782-50-5	Time-weighted average (8 h)	1 ppm (3 mg/m³)
	Short-term (15 min)	3 ppm (9 mg/m³)

Values listed for chlorine in the Second Schedule of the Factories Act, 1948.

Engineering controls

Local exhaust ventilation where dust may form. Eyewash and safety shower close to the dosing area.

Eye and face

Chemical splash goggles and a face shield.

Hands

Chemical-resistant gloves (PVC, neoprene or nitrile).

Body

Chemical-resistant apron or overalls and closed shoes.

Respiratory

Dust mask (P2) for routine handling; full-face respirator with chlorine/acid gas cartridge, or SCBA, after a spill or fire.

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties

Property	Value
Physical state	Solid, free-flowing granules
Colour	White
Odour	Chlorine
Available chlorine	70.00% min
Granule size 0.25 – 2.00 mm	90.00% min
Moisture	0.30% max
pH (1% solution)	About 10.5 – 11.5
Solubility in water	Soluble; a small insoluble residue may remain
Bulk density	About 0.8 – 1.0 g/cm³
Melting / boiling point	Not applicable; decomposes
Decomposition	Slow at room temperature; rapid above about 175 °C
Flash point	Not applicable
Flammability	Not combustible; strong oxidiser that intensifies fire
Oxidising properties	Oxidising solid, Category 1
Corrosive to metals	Yes, in the presence of moisture

10. STABILITY AND REACTIVITY

Reactivity

Strong oxidiser. Reacts violently with acids, ammonia and organic or combustible materials.

Chemical stability

Stable when kept cool, dry and sealed. Heat, moisture and contamination speed up decomposition.

Hazardous reactions

Contamination with organic matter, acids, reducing agents, ammonia or other chlorine products (including TCCA) can cause rapid, self-heating decomposition with release of chlorine gas and oxygen, fire or explosion.

Conditions to avoid

Heat, direct sunlight, moisture, friction or impact when contaminated.

Incompatible materials	Acids; ammonia, urea and amines; TCCA and other chlorinated isocyanurates; oils, grease, paper, wood and other organics; reducing agents; powdered metals.
Decomposition products	Chlorine gas, oxygen and, with nitrogen compounds, explosive chloramines.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Route	Value	Species
Oral LD50	850 mg/kg	Rat
Dermal LD50	> 2000 mg/kg	Rabbit

Skin and eyes	Causes severe skin burns and serious eye damage.
Inhalation	Dust irritates the respiratory tract. Chlorine gas released on contact with acid or moisture is toxic.
Ingestion	Harmful. Burns to the mouth, throat and stomach.
Other effects	Not classified as a sensitiser, carcinogen, mutagen or reproductive toxicant on available data.

12. ECOLOGICAL INFORMATION

Toxicity

Test	Value	Organism
LC50, 96 h	0.16 – 0.3 mg/L (as available chlorine)	Fish
EC50, 48 h	0.03 – 0.16 mg/L (as available chlorine)	Daphnia

Persistence	Not persistent; reacts quickly with organic matter in water and soil.
Bioaccumulation	Not expected.
Other	Very toxic to aquatic life with long lasting effects. Do not let the product or pool backwash containing high chlorine reach drains or waterways without dechlorination.

13. DISPOSAL CONSIDERATIONS

Product	Do not mix with other waste. Small amounts may be dissolved in a large volume of water, neutralised with a reducing agent (such as sodium thiosulphate) and discharged under local effluent rules. Larger amounts go to an authorised hazardous waste handler.
Packaging	Rinse empty drums thoroughly with water before disposal or recycling. Never reuse drums for other materials.

14. TRANSPORT INFORMATION

Road and rail

Item	Detail
UN number	UN 1748
Proper shipping name	CALCIUM HYPOCHLORITE, DRY or CALCIUM HYPOCHLORITE MIXTURE, DRY with more than 39% available chlorine (8.8% available oxygen)
Hazard class	5.1 (oxidising substance)
Packing group	II
Environmental hazard	Yes

Sea (IMDG)

Item	Detail
UN number	UN 1748
Proper shipping name	CALCIUM HYPOCHLORITE, DRY or CALCIUM HYPOCHLORITE MIXTURE, DRY with more than 39% available chlorine (8.8% available oxygen)
Hazard class	5.1 (oxidising substance)
Packing group	II
Marine pollutant	Yes
EmS	F-H, S-Q

Air (IATA/ICAO)

Item	Detail
UN number	UN 1748
Proper shipping name	CALCIUM HYPOCHLORITE, DRY or CALCIUM HYPOCHLORITE MIXTURE, DRY with more than 39% available chlorine (8.8% available oxygen)
Hazard class	5.1 (oxidising substance)
Packing group	II
Note	Quantity limits apply; check current IATA Dangerous Goods Regulations before air shipment

Special precautions

Keep drums upright, closed and dry, away from acids, organics and other pool chemicals during transport.

15. REGULATORY INFORMATION

India

Manufacture, Storage and Import of Hazardous Chemical Rules, 1989
The Factories Act, 1948, as amended
Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996
Public Liability Insurance Act, 1991

Note

Use this sheet as an input to your own risk assessment for storing, handling, using and disposing of the product.

16. OTHER INFORMATION

Preparation

Prepared in line with the GHS guidance on Safety Data Sheets (Annex 4), using published GHS classification and reference data for calcium hypochlorite, CAS 7778-54-3, and the SunSPC specification sheet.

Training

Staff handling SunSPC should be trained on oxidiser hazards, keeping incompatible chemicals apart, and the response to a chlorine gas release.

Abbreviations

GHS: Globally Harmonized System · IMDG: International Maritime Dangerous Goods Code · IATA: International Air Transport Association · LD50/LC50/EC50: lethal or effective dose/concentration for 50% of test organisms · EmS: emergency schedule · SCBA: self-contained breathing apparatus

Issue

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Disclaimer: The information in this Safety Data Sheet is based on current knowledge, published reference data and applicable legislation, and is given in good faith without warranty. It describes safety requirements and is not a guarantee of product properties. Conditions of use are outside Suraj Chemicals' control; users are responsible for meeting all legal requirements for handling, storage, use and disposal. This sheet applies only to SunSPC as supplied.

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