Safety Data Sheet

Superstratum HomeBiotic Surface Cleaner

1 IDENTIFICATION

Product identifier: Superstratum HomeBiotic Surface Cleaner
Recommended use: Tablet for preparing a surface cleaning solution in water.
Restrictions: Use only as directed. Not for ingestion. Do not mix with other cleaners. No disinfectant, sanitizing or antimicrobial efficacy is established by this SDS.

Company: **Superstratum Labs**
Address: 2625 N Stewart Ave, Newton, NC 28658, USA
Company telephone: 704 325-0069
Email: hello@superstratumlabs.com
Emergency telephone: CHEMTREC 1-800-424-9300 (24 hours)

2 HAZARD IDENTIFICATION

Classification based on ingredient information: Serious eye damage/eye irritation, Category 2A. Based on ingredient information and the high sodium carbonate content; confirm against actual supplier SDSs and finished-product data. Finished-product data for other hazard classes are not available.



Signal word: WARNING
Hazard statement: H319 Causes serious eye irritation.

Precautions: Wash hands thoroughly after handling. Wear eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice or attention.

Other hazards: Dust from broken tablets may irritate airways. Prolonged contact may dry or irritate skin. Moisture initiates acid–carbonate reaction and may release carbon dioxide. Do not dissolve tablets in a sealed container. Hazards associated with known or anticipated downstream use: Dilution may produce irritating alkaline solution or mist; assess intended concentration and application. Do not fog or aerosolize without an exposure assessment. Additional hazards not otherwise classified: Not established. Unknown acute toxicity percentage: Not determined; route-specific ingredient information is not available.

SUPERSTRATUM

3 COMPOSITION AND INFORMATION ON INGREDIENTS

Mixture. Percentages are assumed to be weight percentages of the finished dry tablet and total 100%. Confirm chemical forms, CAS numbers and absence of additional binders, coatings or processing aids.

Ingredient	CAS number	Weight percent
Sodium carbonate	497-19-8	49%
Sodium sesquicarbonate	533-96-0	49%
Citric acid	77-92-9	2%

4 FIRST AID MEASURES

Eyes: Immediately flush gently with clean lukewarm water for at least 15 minutes, keeping eyelids open. Remove contact lenses if easy. Obtain medical attention for persistent irritation, pain or impaired vision.

Skin: Remove contaminated clothing. Rinse skin thoroughly with water. Obtain medical advice if irritation persists. Wash clothing before reuse.

Inhalation: Move to fresh air. Obtain medical attention if coughing or breathing discomfort persists. Seek emergency help for breathing difficulty; trained personnel should provide appropriate support.

Ingestion: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Contact a poison center or physician for advice after significant ingestion or if symptoms occur.

Main symptoms and effects: Eye stinging, redness and tearing; skin dryness or irritation; dust-related cough or sore throat; gastrointestinal discomfort after ingestion. Delayed effects: No mixture data available. Immediate treatment: Treat symptomatically; no specific antidote is established.

5 FIRE FIGHTING MEASURES

Extinguishing media: Choose media suitable for the surrounding fire. Unsuitable media: No specific data; avoid forceful jets that scatter powder. The blend is predominantly inorganic carbonate salts; finished-product flammability and dust explosibility have not been tested. Citric acid dust can present a combustible dust hazard in its pure form; do not transfer that classification automatically to this tablet.

Specific hazards: Heat may release carbon dioxide, irritating fumes and sodium-containing decomposition products. Firefighters: Wear full protective equipment and positive-pressure self-contained breathing apparatus. Contain contaminated runoff where feasible.

6 ACCIDENTAL RELEASE MEASURES

Avoid eye contact and raising dust. Ventilate the area and use protection in Section 8. Pick up intact tablets; collect fragments gently with suitable equipment into a compatible, dry container. Avoid dry brushing or compressed air. Keep dry waste separate from acids and moisture. Prevent bulk entry into drains and waterways. Small remaining residues may be cleaned with water if permitted; avoid splashes and retain significant wash water for proper disposal.

7 HANDLING AND STORAGE

Handle with dry hands and avoid crushing tablets. Avoid breathing dust or spray mist. Keep food and beverages out of handling areas. Add tablets to water only at the approved label dilution; allow any gas evolution to finish before closing the container. Do not mix with acids, bleach, ammonia or other cleaning products.

Store tightly closed in original moisture-resistant packaging in a cool, dry, ventilated location, away from incompatible substances and food. Protect from humidity, heat and water intrusion. Keep out of reach of children. Storage temperature and shelf life: Not established for the finished product; verify by stability testing.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters: Ingredient-specific occupational exposure limits have not been verified for the actual raw materials. Where applicable, OSHA limits for particulates not otherwise regulated are 15 mg/m³ total dust and 5 mg/m³ respirable fraction as 8-hour time-weighted averages; confirm applicability and any stricter limits. No biological exposure indices are available for the mixture.

Engineering controls: Provide ventilation sufficient to control dust and mist. Use local exhaust for bulk tablet handling or breakage. Provide access to eyewash and washing facilities.

Eye and face protection: Chemical splash goggles when handling fragments, powder or solutions that may splash. Gloves: Suitable chemical-resistant gloves, such as nitrile, selected for task, duration and supplier compatibility data. Clothing: Work clothing; protective apron for splash-prone work.

Respiratory protection: Normally unnecessary for intact tablets when airborne exposure is controlled. If ventilation is inadequate or exposures exceed applicable limits, use a NIOSH-approved respirator selected under an appropriate respiratory protection program. Respirators do not replace ventilation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	Solid tablet; color not verified
Odor and odor threshold	Not determined
pH	Not measured; aqueous solution expected to be alkaline. Record concentration, temperature and method
Melting or freezing point	Not determined; components may decompose
Boiling point and range	Not applicable to solid blend; decomposition may precede boiling
Flammability	Not tested for mixture
Lower and upper explosion limits	Not determined
Flash point	Not applicable to this solid inorganic-rich blend; no mixture test
Autoignition and decomposition temperatures	Not determined for mixture
Kinematic viscosity	Not applicable to solid tablet
Solubility	Ingredients are water-soluble; tablet dissolution rate not determined
Partition coefficient n octanol and water	Not determined for mixture
Vapor pressure and relative vapor density	Not determined; low volatility expected

Density and relative density	Not determined for tablet
Particle characteristics	Tablet dimensions, mass and dust particle distribution not provided

10 STABILITY AND REACTIVITY

Reactivity: Carbonates react with acids and release carbon dioxide. The formula contains both carbonate salts and citric acid; moisture can initiate reaction. Chemical stability: Expected to be stable under dry, recommended storage conditions; finished-product stability has not been validated.

Hazardous reactions: Gas evolution can pressurize closed containers. Hazardous polymerization is not expected from the listed ingredients. Conditions to avoid: Moisture intrusion, excessive heat, dust generation and sealed dissolution. Incompatibilities: Acids, strong oxidizers and other cleaners; review intended contact with metals and alkali-sensitive surfaces.

Hazardous decomposition products: Carbon dioxide and, under severe heating, irritating fumes and sodium-containing residues. Mixture-specific decomposition data are unavailable.

11 TOXICOLOGICAL INFORMATION

Likely exposure routes: Eye and skin contact; inhalation of dust or mist; accidental ingestion. Symptoms: See Section 4. Immediate and delayed effects: Eye irritation is anticipated from composition; repeated wet or prolonged skin contact may cause dryness or irritation. Mixture-specific chronic exposure data are unavailable.

Acute toxicity: No finished-product oral, dermal or inhalation LD50/LC50 data or validated acute toxicity estimates are available. Do not interpret missing data as absence of hazard. Route-specific unknown acute toxicity percentages remain to be determined.

Skin corrosion or irritation: No finished-product data; assess using actual ingredient information and measured solution properties. Serious eye damage or irritation: Category 2A based on ingredient information. If measured pH, alkaline reserve or other evidence indicates more severe injury, reassess classification when additional product information becomes available.

Respiratory or skin sensitization: No mixture data available. Germ cell mutagenicity: No mixture data available. Carcinogenicity: Mixture not evaluated; current NTP, IARC and OSHA listing status have not been verified for the actual raw materials and relevant impurities.

Reproductive toxicity: No mixture data available. Specific target organ toxicity after single or repeated exposure: No mixture data available; dust may cause airway irritation. Aspiration hazard: Not assessed for mixture; supplied form is a solid tablet. Interactive effects and other relevant health information: No mixture studies available.

12 ECOLOGICAL INFORMATION

Ecotoxicity: No mixture data available. Large releases of alkaline material may alter water pH and affect aquatic organisms. Persistence and degradability: Not determined for mixture; inorganic salts are not assessed using organic biodegradation criteria. Bioaccumulative potential and mobility in soil: No mixture data available. Other adverse effects: Not determined. Prevent uncontrolled environmental release.

13 DISPOSAL CONSIDERATIONS

Dispose of unused tablets, collected dust, cleaning residues and contaminated packaging through an approved waste route consistent with applicable federal, state and local requirements. The waste generator must characterize the actual waste, including pH of aqueous waste, before assigning a waste code. Do not assume household or nonhazardous disposal is appropriate for bulk material. Do not reuse contaminated packaging for food or drinking water.

14 TRANSPORT INFORMATION

UN number, UN proper shipping name, transport hazard class and packing group: Not determined for the finished product. DOT, IMDG and IATA status: Finished-product assessment pending. The formulation alone does not establish a regulated dangerous goods classification; Transport criteria and actual physical form must be evaluated to determine shipping status.

Environmental hazards and marine pollutant status: Not determined for mixture. Transport in bulk under applicable IMO instruments: Not evaluated; not an intended use. Special precautions: Keep dry, prevent tablet breakage and protect packaging from incompatible cargo and moisture.

15 REGULATORY INFORMATION

Prepared in the US 16-section SDS format with reference to OSHA Hazard Communication Standard, 29 CFR 1910.1200, including the current Appendix D.

TSCA inventory and applicable restrictions: Verify actual chemical identities and supplier compliance. EPCRA/SARA Sections 302, 304, 311/312 and 313; CERCLA; state right-to-know and California Proposition 65: Not verified for the finished product and all impurities. Complete a current regulatory review when additional product information becomes available. An SDS does not establish pesticide registration, efficacy or product label approval.

16 OTHER INFORMATION

Preparation date: November 4, 2026
Version: 1.0
Previous product SDS revision date: Not available
Revision scope: Updated SDS reflecting the supplied 49% sodium carbonate, 49% sodium sesquicarbonate and 2% citric acid formula and updated Superstratum Labs contact details.

Basis and limitations: Composition and company details were supplied by the requester. Ingredient references support an ingredient-based hazard evaluation; they are not supplier-specific documentation for this product. Percentages are assumed w/w. No measured product pH, tablet performance, stability, toxicology or transport test data were supplied. This document applies to the dry tablet; the final dilution requires its own documented hazard assessment.

Reference sources

Accessed November 4, 2026. OSHA Appendix D:
https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1200AppD

Fisher Scientific sodium carbonate SDS, revised December 19, 2025:
https://www.fishersci.com/store/msds?countryCode=US&language=en&partNumber=AC207810010

ILO/WHO ICSC 1511, sodium sesquicarbonate dihydrate: https://inchem.org/documents/icsc/icsc/eics1511.htm

Thermo Fisher citric acid anhydrous SDS, revised December 21, 2025:
https://www.fishersci.com/store/msds?countryCode=US&language=en&partNumber=AAJ13729

Abbreviations: CAS Chemical Abstracts Service; GHS Globally Harmonized System; OSHA Occupational Safety and Health Administration; SDS Safety Data Sheet; TSCA Toxic Substances Control Act; DOT US Department of Transportation; IMDG International Maritime Dangerous Goods; IATA International Air Transport Association.