

SST De-Scaler

Industrial descaling cleaner for compatible equipment and systems

Controlled safety source: SST_SDS.pdf, SDS UC-015, revision May 1, 2020. This TDS does not replace the current Safety Data Sheet.

PRODUCT OVERVIEW

SST De-Scaler is intended for removal of scale, lime, stains and rust from compatible industrial equipment and systems by circulation, spraying or soaking.

Recommended use	Descaling	Physical state	Liquid
Appearance / odor	Colorless to pale yellow / strong pungent	pH	1 concentrate
Specific gravity	1.065	Water solubility	Completely soluble
Boiling point	100 C / 212 F	Flash point	Non-flammable
Transport	UN1789 Hydrochloric Acid, Class 8, PG II	NFPA	3-0-0

DILUTION AND OPERATING LIMITS

Normally 1:4, depending on spot test.

- Do not assign a dilution ratio by assumption.
- Do not invent an operating temperature, maximum contact time, circulation rate or spray pressure.
- Apply only under an approved product-specific or site procedure that defines concentration and operating limits.
- Do not mix SST with another cleaner, acid, alkali, bleach, ammonia, inhibitor or treatment chemical unless a written procedure authorizes the combination.

SHIPPING, PACKAGE AND LOGISTICS

Variant	Physical Package	SKU	Gross Weight	Dimensions	NMFC	Class
Standard	1 Gallon Jug	SST001	8.8 lb	6 x 6 x 12 in	44645	70
Standard	5 Gallon Bucket	SST005	46.5 lb	10.25 x 10.25 x 14.75 in	44645	70
Standard	55 Gallon Drum	SST055	504 lb	23.5 x 23.5 x 35 in	44645	70
Standard	250 Gallon Tote	SST250	2,350 lb	40 x 47 x 46 in	44645	70

Current SDS transport classification: UN1789, Hydrochloric Acid, Hazard Class 8, Packing Group II for DOT, IATA and IMDG. The SDS notes package-size exceptions may apply; use current shipping papers. NMFC 44645 / Freight Class 70 is the current master-matrix value.

NFPA 704



Health	3	Serious health hazard
Flammability	0	Non-flammable
Instability	0	Stable under normal conditions
Special	-	Not determined

GHS HAZARD COMMUNICATION

	GHS05 Corrosion
	DANGER
	Skin corrosion Category 1.
	Serious eye damage Category 1.
	Harmful if swallowed. Causes severe skin burns and eye damage. Toxic if inhaled.

SAFE HANDLING AND REQUIRED PPE

- SST is corrosive. Avoid skin, eye and clothing contact.
- Wear goggles and a face shield as needed to prevent eye and face contact.
- Wear suitable chemical-resistant gloves and protective clothing.
- Do not breathe vapors or spray mist.
- Ensure adequate ventilation, especially in confined areas; use respiratory protection when ventilation is inadequate.
- Keep eyewash stations and emergency showers immediately accessible.
- Wash face, hands and exposed skin thoroughly after handling.
- Wash contaminated clothing before reuse.

STORAGE AND INCOMPATIBILITIES

- Keep container tightly closed in a cool, dry and well-ventilated place.
- Store locked up and out of reach of children.
- Protect from freezing; if frozen, thaw completely before use.
- Current SDS lists acids, bleach and ammonia as incompatible.
- Do not mix with unknown chemicals.

FIRST AID FROM CURRENT SDS

Exposure	Current SDS direction
Eyes	Immediately flush with plenty of water. After initial flushing, remove contact lenses and continue flushing for at least 15 minutes.
Skin	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Inhalation	Remove to fresh air. Call a physician immediately.
Ingestion	Do not induce vomiting. Drink plenty of water. Immediately call a poison center or doctor/physician.

Emergency contact: INFOTRAC 1-800-535-5053 North America; 1-352-323-3500 International.

APPROVED OPERATING GUIDANCE

1. Review the current SST SDS, equipment manufacturer instructions and the site job safety analysis.
2. Identify equipment materials, seals, coatings, soldered joints and repair materials; confirm compatibility before exposure.
3. Isolate, depressurize, drain and secure the system or component.
4. Provide secondary containment and protect drains, soil and surface water.
5. Apply SST by the approved circulation, spraying or soaking method under a written concentration and operating procedure.
6. Maintain controlled contact while monitoring deposit removal and equipment condition.
7. Stop immediately if leakage, abnormal discoloration, material attack or equipment damage is observed.
8. Drain or recover used solution into suitable labeled containers and remove loosened deposits from passages, strainers and low points.
9. Perform any rinse, neutralization, drying, leak testing or pressure testing only under an approved procedure.
10. Inspect cleaned surfaces and repeat treatment only when technically approved.

SPILL, FIRE AND ENVIRONMENTAL HANDLING

- Keep unnecessary personnel away from and upwind of spills or leaks.
- Stop further leakage or spillage if safe to do so.
- Soak up with inert absorbent material and transfer recovered material to properly labeled containers.
- The SDS clean-up wording references citric acid for basic materials, which is inconsistent with this acidic product; use only a site-approved acid-neutralization procedure.
- Suitable extinguishing media: water fog, foam, dry chemical powder or carbon dioxide.
- Do not use a water jet as an extinguisher because it may spread the fire.
- Firefighters should use self-contained breathing apparatus and full protective gear.
- The product is not classified as environmentally hazardous, but large or frequent spills may still be harmful.
- The SDS lists the product as readily biodegradable.

TRANSPORTATION AND REGULATORY PROFILE

Mode / Field	Controlled value
DOT	UN1789, Hydrochloric Acid, Class 8, Packing Group II
IATA	UN1789, Hydrochloric Acid, Class 8, Packing Group II
IMDG	UN1789, Hydrochloric Acid, Class 8, Packing Group II
CERCLA RQ	5,000 lb for hydrochloric acid
California hazardous waste	Hydrochloric acid listed as toxic and corrosive in the current SDS.
California Proposition 65	Current SDS states this product does not contain Proposition 65 chemicals.

DOCUMENT CONTROL

Product	SST De-Scaler
Product code	SST
Safety source	SST_SDS.pdf SDS UC-015 revision May 1, 2020 Version 1
Operational source	SST_Field_Guide_QR_UPDATED.pdf Revision 1 Draft, August 4, 2026; safety content superseded by current SST SDS
Shipping source	2026 Ultimate Chemicals Product Shipping Specs Matrix.xlsx
NFPA asset	NFPA_3-0-0.svg
GHS asset	GHS05_Corrosion.png
Header artwork	Approved Ultimate Chemicals logo upper left; approved glow logo upper right
Program/footer artwork	Approved glow logo. SST is not on the controlled Zero Hour badge list.
Quick Access	Product, SDS and TDS only

QUICK ACCESS

Scan the QR code or select the printed URL. Each printed URL is embedded as a clickable PDF hyperlink.

PRODUCT PAGE



<https://ultimatechemicals.com/products/sst>

SDS



<https://ultimatechemicals.com/sds/sst>

TDS



https://ultimatechemicals.com/tds/sst_tds.pdf