



SAFETY DATA SHEET

GS Extra-Strength Cleaner Concentrate

Section 1. Identification

GHS product identifier : GS Extra-Strength Cleaner Concentrate
Other means of identification : ST-842, ST-842E, ST-843, ST-844, ST-853, ST-853E, ST-1374
 GL62
Product type : Liquid.

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

Product use : Cleaner for hard surfaces.
Area of application : Industrial applications, Professional applications.

Product dilution information : 1 oz. (29.57 mL) per 32 oz. (1 L) of cold water for spray-and-wipe cleaning.
 1 oz. (29.57 mL) per 1 gal. (4 L) of cold water for scrubbing.
 1 oz. (29.57 mL) per 2 gal. (8 L) of cold water for damp mopping.

Supplier/Manufacturer : **STEARNS PACKAGING CORPORATION**
 4200 Sycamore Avenue (53714)
 PO Box 3216
 Madison, WI 53704-0216
 Telephone no.: 800-655-5008
 Fax no.: 608-246-5149
 Website: www.stearnspkg.com

e-mail address of person responsible for this SDS : stearns@stearnspkg.com

Emergency telephone number (with hours of operation) : CHEM-TEL : 800-255-3924

Section 2. Hazards identification

	Product as SOLD	Product AT USE DILUTION
Physical hazards	: Not classified.	Not classified.
Health hazards	: Not classified.	Not classified.
Environmental hazards	: Not classified.	Not classified.
OSHA defined hazards	: Not classified.	Not classified.
<u>Label elements</u>		
Hazard symbol	: None	None
Signal word	: None	None
Hazard statements	: The mixture does not meet the criteria for classification.	The mixture does not meet the criteria for classification.
<u>Precautionary statements</u>		
General	: Keep out of the reach of children.	Keep out of the reach of children.
Prevention	: Avoid contact with eyes	Avoid contact with eyes.
Response	: Wash hands after handling.	Rinse hands after handling.
Storage	: Store away from incompatible materials.	No storage precautions necessary.
Disposal	: Dispose of waste and residues in accordance with local authority requirements.	Dispose of solution down the drain to municipal sewer.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.	Not applicable.
Supplemental information	: Not applicable.	Not applicable.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : ST-842, ST-842E, ST-843, ST-844, ST-853, ST-853E, ST-1374

CAS number/other identifiers

CAS number : Not applicable.
Product code : Not available.

Ingredient name	Other names	%	CAS number
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	2.34 - 2.46	68439-57-6
sodium carbonate	sodium carbonate	2	497-19-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Section 4. First aid measures

	Product as SOLD	Product AT USE DILUTION
Inhalation	: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.	No special measures required. Treat symptomatically.
Skin contact	: If irritation occurs, flush exposed area with water. Get medical attention if irritation develops and persists.	No known effect after skin contact.
Eye contact	: Rinse with water. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.	No known effect after eye contact. Rinse with water for a few minutes. If irritation persists, get medical attention.
Ingestion	: Rinse mouth. DO NOT INDUCE VOMITING. If ingestion of a large amount does occur, call a poison control center immediately.	Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	: Direct contact with eyes may cause temporary irritation.	No known effects.
Indication of immediate medical attention and special treatment needed	: Treat symptomatically.	Treat symptomatically.
General information	: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	No special measures required.

Section 5. Fire-fighting measures

Suitable extinguishing media : Treat for surrounding material.
Unsuitable extinguishing media : Not available.
Specific hazards arising from the chemical : During fire, gases hazardous to health may be formed.

Section 5. Fire-fighting measures

- Special protective equipment and precautions for firefighters** : Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
- Fire-fighting equipment/instructions** : Move containers from fire area if you can do so without risk.
- Specific methods** : Use standard firefighting procedures and consider the hazards of other involved materials.
- General fire hazards** : No unusual fire or explosion hazards noted.

Section 6. Accidental release measures

	Product as SOLD	Product AT USE DILUTION
Personal precautions, protective equipment and emergency procedures	<p>: Keep out of low areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.</p>	<p>Use personal protective equipment as required.</p> <p>Avoid contact of large amounts of spilled material and run off with soil and surface waterways.</p> <p>Use a water rinse for final clean-up.</p>
Methods and materials for containment and cleaning up	<p>: This product is miscible in water. Stop the flow of material, if this is without risk.</p> <p>Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, basements or confined areas. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>	<p>Large Spills: Flush area with water. Prevent entry into waterways.</p> <p>Small Spills: Wipe up with absorbent material.</p> <p>Discharge collected material per Section 13 of the SDS.</p>
Environmental precautions	<p>: Avoid discharge into storm water drains, water courses or onto the ground.</p>	<p>Avoid discharge into storm water drains, water courses, or onto the ground.</p>

Section 7. Handling and storage

	Product as SOLD	Product AT USE DILUTION
Precautions for safe handling	<p>: Use care in handling/storage.</p>	<p>Wash hands thoroughly after handling.</p>
Conditions for safe storage, including any incompatibilities	<p>: Keep out of reach of children. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).</p>	<p>Keep out of reach of children.</p>

Section 8. Exposure controls/personal protection

	Product as SOLD	Product AT USE DILUTION
Occupational exposure limits	<p>: No exposure limits noted for ingredient(s).</p>	<p>No exposure limits noted for ingredient(s).</p>

Section 8. Exposure controls/personal protection

	Product as SOLD	Product AT USE DILUTION
Biological limit values	: No biological exposure limits noted for the ingredient(s).	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.	Good general ventilation should be used.
Individual protection measures, such as personal protective equipment		
Eye/face protection	: Safety glasses if eye contact is possible.	Wear protective eyewear if contact is possible.
Skin protection		
Hand protection	: Not normally needed.	No protective equipment is needed under normal conditions.
Other	: As required by employer code.	No protective equipment is needed under normal conditions.
Respiratory protection	: No personal respiratory protective equipment normally required.	No protective equipment is needed under normal conditions.
Thermal hazards	: Wear appropriate thermal protective clothing, when necessary.	No protective equipment is needed under normal conditions.
General hygiene considerations	: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9. Physical and chemical properties

	Product as SOLD	Product AT USE DILUTION
Appearance	: Clear	Appearance may depend on soil load.
Physical state	: Liquid.	Liquid.
Form	: Liquid.	Liquid.
Color	: Dark green.	Light green or colorless.
Odor	: Fresh scent. Fragrance added.	Fresh scent. (slight)
Odor threshold	: Not available.	Not available.
pH	: 10.5-11.0	7.0 - 8.0
Melting point	: Not available.	Not available.
Initial boiling point and boiling range	: 212 °F (100 °C)	212 °F (100 °C)
Pour point	: Not available.	Not available.
Specific gravity	: Not available.	Not available.
Flash point	: Closed cup: >93.333°C (>200°F) [Pensky-Martens.]	Closed cup: >93.333°C (>200°F) [Pensky-Martens.]
Evaporation rate	: Not available.	Not available.
Flammability (solid, gas)	: Not applicable.	Not applicable.

Section 9. Physical and chemical properties

	Product as SOLD	Product AT USE DILUTION
Lower and upper explosive (flammable) limits	: Not available.	Not available.
Vapor pressure	: <0.013 kPa (<0.1 mm Hg)	<0.013 kPa (<0.1 mm Hg)
Vapor density	: Not available.	Not available.
Relative density	: 1.049	1.00
Solubility	: Complete	Complete
Auto-ignition temperature	: Not available.	Not available.
Decomposition temperature	: Not available.	Not available.
Viscosity	: <100 mPa·s (<100 cP)	<100 mPa·s (<100 cP)
Other information		
Bulk density	: 8.75 lbs/gallon	8.35 lbs/gallon

Section 10. Stability and reactivity

	Product as SOLD
Reactivity	: None known.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Material is stable under normal conditions.
Conditions to avoid	: Do not mix with other chemicals. Keep from freezing.
Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: No hazardous decomposition products are known.

Section 11. Toxicological information

Information on the likely routes of exposure

	Product as SOLD	Product AT USE DILUTION
Ingestion	: Expected to be a low ingestion hazard.	Expected to be a low ingestion hazard.
Inhalation	: No adverse effects due to inhalation are expected.	No adverse effects due to inhalation are expected.
Skin contact	: No adverse effects due to skin contact are expected.	No adverse effects due to skin contact are expected.
Eye contact	: Direct contact with eyes may cause temporary irritation.	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	: Direct contact with eyes may cause temporary irritation.	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

	Product as SOLD	Product AT USE DILUTION
Acute toxicity	: Calculated Oral LD50 9,794 mg/kg	
Skin corrosion/irritation	: Prolonged skin contact may cause temporary irritation.	No known significant effects or critical hazards.
Exposure minutes	: Not available.	Not available.
Erythema value	: Not available.	Not available.
Oedema value	: Not available.	Not available.

Section 11. Toxicological information

	Product as SOLD	Product AT USE DILUTION
Serious eye damage/eye irritation	: Direct contact with eyes may cause temporary irritation.	No known significant effects or critical hazards.
Corneal opacity value	: Not available.	Not available.
Iris lesion value	: Not available.	Not available.
Conjunctival reddening value	: Not available.	Not available.
Conjunctival oedema value	: Not available.	Not available.
Recover days	: Not available.	Not available.
Respiratory or skin sensitization	: Direct contact with eyes may cause temporary irritation.	No known significant effects or critical hazards.
Respiratory sensitization	: Not available.	Not available.
Skin sensitization	: This product is not expected to cause skin sensitization.	No known significant effects or critical hazards.
Germ cell mutagenicity	: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	No known significant effects or critical hazards.
Carcinogenicity	: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	No known significant effects or critical hazards.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

	Product as SOLD	Product AT USE DILUTION
Reproductive toxicity	: This product is not expected to cause reproductive or developmental effects.	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity -single exposure	: Not classified.	Not classified.
Specific target organ toxicity -repeated exposure	: Not classified.	Not classified.
Aspiration hazard	: Not available.	Not available.
Chronic effects	: Not available.	Not available.
Further information	: This product has no known adverse effect on human health.	This product has no known adverse effect on human health.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts sodium carbonate	Acute EC50 4.53 mg/l Fresh water	Crustaceans – Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 4.2 mg/l	Fish - Brachydanio rerio	96 hours
	Acute EC50 242000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute LC50 176000 µg/l Fresh water	Crustaceans - Amphipoda	48 hours
	Acute LC50 265000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours

Section 12. Ecological information

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	302B Inherent Biodegradability: Zahn-Wellens/EMPA Test	85 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	-	-	Readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

	Product as SOLD	Product AT USE DILUTION
Disposal instructions	: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
Local disposal regulations	: Dispose in accordance with all applicable regulations.	
Hazardous waste code	: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.	

Section 14. Transport information

Product as SOLD

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	Cleaning Compounds, NOI, liquid	-	-
Transport hazard class(es)	-	-	-

Section 14. Transport information

Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Product AT USE DILUTION

Not intended for transport

Section 15. Regulatory information

U.S. Federal regulations

Product as SOLD

TSCA Section 12(b) Export : Not regulated.

Notification (40 CFR 707, Subpt. D)

CERCLA Hazardous Substance List (40 CFR 302.4) : Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

: Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Product as SOLD

Hazard categories : Immediate Hazard - No
Delayed Hazard - No
Fire Hazard – No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302/304

Composition/information on ingredients

Product as SOLD						
Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Formaldehyde	0.006	Yes	-	-	-	-

Product AT USE DILUTION

Not regulated.

Not listed.

Not listed.

Product AT USE DILUTION

Non-hazardous.

Product AT USE DILUTION		
Name	%	EHS
Formaldehyde	0.0030-0.00002	Yes

Product as SOLD

SARA 311/312 : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Sulfonic acids, C14-16-alkane hydroxyl and C14-16-alkene, sodium salts	2.34 - 2.46	No.	No.	No.	Yes.	No.
sodium carbonate	2	No.	No.	Yes.	Yes.	No.

Product AT USE DILUTION

Non-hazardous.

SARA 313 (TRI reporting) : Not regulated.

Section 15. Regulatory information

Other federal regulations

Product as SOLD

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List : Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) : Not regulated.

Safe Drinking Water Act (SDWA) : Not regulated.

Food and Drug Administration (FDA) : Not regulated.

Product AT USE DILUTION

Not regulated.

Not regulated.

Not regulated.

Not regulated.

US State regulations

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Formaldehyde	Yes.	No.	Yes.	No.

US. Massachusetts RTK - Substance List : Not regulated.

US. Pennsylvania RTK - Hazardous Substances : Not regulated.

US. Rhode Island RTK : Not regulated.

Not regulated.

Not regulated.

Not regulated.

Country(s) or region : United States & Puerto Rico
Inventory name : Toxic Substances Control Act (TSCA) Inventory
On inventory (yes/no)* : Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

Section 16. Other information

Product as SOLD

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	0
Physical hazards	0

National Fire Protection Association (U.S.A.)

Health  Flammability
 Instability/Reactivity
 Special

Product AT USE DILUTION

Hazardous Material Information System (U.S.A.)

Health	0
Flammability	0
Physical hazards	0

Health  Flammability
 Instability/Reactivity
 Special

MSDS File Name : GL62 GS Extra-Strength Cleaner Concentrate SDS

NSF Certified : C1, C2; 7/15/05; #137217

Green Seal Certified : GS-37 2009

Section 16. Other information

Disclaimer

: Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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