

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Stellar Solutions, Inc.
 4511 Prime Parkway
 McHenry, IL 60050
 (847) 854-2800

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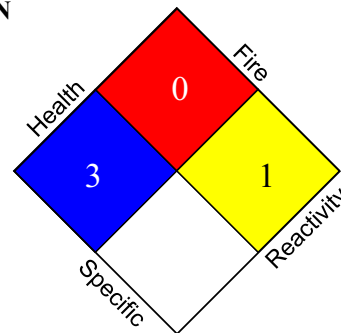
EMERGENCY TELEPHONE: **1-800-535-5053** USA & Canada
 24 hr INFOTRAC **1-352-323-3500** International

Trade Name: KleerKleen™ 4002
 Product Use/Class: Specialty Cleaner

SECTION II - HAZARDS IDENTIFICATION

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	2
PERSONAL PROTECTION	E

E: Safety glasses, gloves, dust mask



*****EMERGENCY OVERVIEW***:** CAUSES EXTREME SKIN, LUNG AND EYE IRRITATION. AVOID CONTACT WITH ANY PART OF THE BODY.

Effects of Overexposure - Eye Contact: Liquid, aerosols, vapors, and airborne dust of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by short term or long term damage to the eyes.

Effects of Overexposure - Skin Contact: Contact with the skin can cause extreme burns, pain and permanent damage if not treated immediately.

Effects of Overexposure - Inhalation: Inhalation of powder or mist from solution will cause severe irritation of the nose, mouth and respiratory tract: coughing, difficulty in breathing, or chemical pneumonitis.

Effects of Overexposure - Ingestion: Poisonous. Will cause severe burns to internal organs, pain and threat to life if quantity is sufficient.

Effects of Overexposure - Chronic Hazards: No information available.

Primary Routes of Entry: Skin contact, inhalation, eye contact, ingestion.

Hazard classifications:

Serious eye damage 1
 Skin corrosion 1B

SECTION II - HAZARDS IDENTIFICATION (continued)

Hazard statements: Danger

H301 Toxic if swallowed

H314 Causes severe skin burns and eye damage

H319 Causes serious eye irritation



Precautionary statements:

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310 If swallowed: Immediately call a poison center or doctor/physician.

P303 + P361 + P353 If on skin (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Item</u>	<u>Chemical Name</u>	<u>CAS No.</u>	<u>% By Wt. (less than)</u>
01	Sodium hydroxide	1310-73-2	55%
-	Non-hazardous Ingredients	-	Balance

Non hazardous ingredients in this product are considered non hazardous under the Federal Hazard Communication Standard 29 CFR 1910. 1200. All ingredients are on the U.S. TSCA Inventory.

Exposure Limits:

<u>Item</u>	<u>TLV-TWA</u>	<u>TLV-STEL</u>	<u>PEL-TWA</u>	<u>PEL-CEILING</u>	<u>SKIN</u>
01	2 mg/m ³	2 mg/m ³	2 mg/m ³	2 mg/m ³	NO

(See Section 16 for abbreviation legend)

SECTION IV - FIRST AID MEASURES

First Aid - Eye Contact: Remove contact lenses. IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. Get medical attention immediately.

First Aid - Skin Contact: Wash with large amounts of water immediately. Remove contaminated clothing. Get medical attention. Wash clothing before re-use.

First Aid - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

First Aid - Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION V - FIRE AND EXPLOSION INFORMATION

Flash Point: N.A

Flammable Limits: LEL: N.A. **UEL:** N.A.

Extinguishing Media: Foam, CO₂, dry chemical, water fog may be used. Adding water to caustic solution generates large amounts of heat.

Special Fire Fighting Procedures: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

Unusual Fire and Explosion Hazard: Contact with some organic chemicals may produce violent or explosive reactions. Reaction with water will generate heat - this may be sufficient to ignite combustible materials. Contact with some metals will liberate hydrogen gas - explosion risk!

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Spilled material should be collected and put in approved DOT container for disposal. Avoid runoff into storm sewers and ditches which lead to waterways. Follow all government regulations. Provide adequate ventilation. Avoid breathing any dust.

SECTION VII - HANDLING AND STORAGE

Handling: Use adequate ventilation when transferring product. Wear respiratory protection if ventilation is inadequate or not available. Use eye and skin protection. Do not get into eyes, on skin or on clothing. Use clean plastic or stainless steel scoops only. Wash thoroughly after handling.

Storage: Keep container closed when not in use. Store under a controlled environment. Avoid excessive heat.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace condition warrant a respirator's use.

Skin Protection: Rubber, neoprene or polyvinyl chloride impervious gloves may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Consult your glove manufacturer for compatibilities.

Eye Protection: Wear chemical splash goggles. DO NOT WEAR CONTACT LENSES.

Other Protective Equipment: Wear suitable protective clothing to minimize and/or prevent contact. An eye-wash and safety shower should be present in the immediate area when handling this product.

Hygienic Practices: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in well ventilated area. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues. Avoid contact with eyes, skin and clothing.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	N.A.	Melting/Freezing Point:	N.A.
Odor:	Odorless	Appearance:	White crystals
Specific Gravity:	1.2	Solubility in Water:	Complete
Vapor Density:	N.A.	Vapor Pressure:	N.A.
Physical State:	Solid powder	Odor Threshold:	N.A.
Evaporation Rate:	N.A.	pH @ 10% in Water:	11.5
Viscosity:	N.A.	Coeff. of Water/Oil Dist.:	N.A.

(See Section 16 for abbreviation legend)

SECTION X - STABILITY AND REACTIVITY

Stability: This product is stable under normal storage conditions.

Conditions to Avoid: Do not add water to powder. Always add powder to water slowly while stirring.

Incompatibility: Acids, hot water (when added to hot water or water added to powder), metals that are unstable with alkaline materials.

Hazardous Decomposition or Byproducts: Hydrogen gas can be liberated upon decomposition. Hydrogen is extremely flammable and explosive.

Hazardous Polymerization: Will not occur under normal conditions.

SECTION XI - TOXICOLOGICAL PROPERTIES

Threshold Limit Value: LDLO (ORAL-RABBIT) 500 mg/kg, may produce adverse mutagenic effects

Carcinogenicity: NTP: N.A. IARC Monographs: N.A. OSHA Regulated: N.A.

SECTION XII - ECOLOGICAL PROPERTIES

Ecological Information: No information.

SECTION XIII - DISPOSAL CONSIDERATIONS

Disposal Method: Follow all federal, state and local regulations.

SECTION XIV - TRANSPORTATION INFORMATION

Proper Shipping Name: UN1823, Sodium hydroxide, solid

Hazard Class: 8, PG II, ERG#154

SECTION XV - REGULATORY INFORMATION

U. S. Federal Regulations as Follows:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA Hazard Category: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

No SARA Section 313 components exist in this product.

Toxic Substances Control Act (TSCA): The chemical substances in this product are on the TSCA Section 8 Inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Sodium hydroxide.

Canada Regulations as Follows:

WHMIS: The Canadian Workplace Hazardous Materials Information System classification for this product is:

E - corrosive to skin when mixed with water

Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

SECTION XVI - OTHER INFORMATION

Date Prepared: 03/27/2002

Date Revised: 07/10/2018

Reason for Revision: Update

Previous Revision Date: 12/01/2017

Signature of Preparer:



Legend: N.A. - Not Applicable

N.E. - Not Established

N.D. - Not Determined

While the company believes that the data contained herein is factual and the opinions expressed are based on tests and data believed to be reliable, it is the user's responsibility to determine the safety, toxicity and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by this company as to the effects of such use, the results to be obtained, or the safety and toxicity of the product, nor does this company assume any liability arising out of the use, by others, of the product referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or governmental regulations.