

SAFETY DATA SHEET

Revision Date: April 9, 2014

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SECTION 1: IDENTIFICATION

Product Identifier

Product Name: CS-40

Recommended Use of the Chemical and Restrictions on Use

Recommended Use: Chlorinated Mechanical Dishwashing Detergent

Details of the Supplier of the Safety Data Sheet

Supplier Address: Luseaux Laboratories, Inc. Luseaux Laboratories Inc.
4625 N Santa Fe Drive or 16816 Gramercy Place
Kingman, AZ 86401 Gardena, CA 90247

Emergency Telephone Number

Company Phone Number: Arizona Location: 928-692-0192
California Location: 310-324-1555

Emergency Telephone: CHEMTREC: 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

Appearance: White granular powder

Physical State: Powder

Odor: Chlorine

Classification

Skin corrosion/irritation	Category 1C
Serious eye damage/eye irritation	Category 1
Respiratory tract irritation	Category 2



Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage.
May cause respiratory tract irritation

Precautionary Statements – Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling.

Precautionary Statements – Response

Immediately call a poison center or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

Precautionary Statements – Storage

Store locked up.

Precautionary Statements – Disposal

Dispose of contents/container to an approved waste disposal plant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Sodium Hydroxide	1310-73-2	Not identified*
Sodium dichloroisocyanurate, dihydrate	51580-86-0	Not identified*
Sodium carbonate	497-19-8	Not identified*

*The specific percentages are not identified due to "Trade Secret" status. In emergency situation, further information may be obtained by calling the emergency information number listed above.
Reference 29 CFR 1910.1200

SECTION 4: FIRST AID MEASURES

First Aid Measures

Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediately call a poison center or doctor/physician.

Skin Contact:

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

Ingestion:

If swallowed, rinse mouth. Do NOT induce vomiting. Drink large quantities of water without delay. Drink milk or milk of magnesia. Never give anything by mouth to a person who is unconscious or convulsing.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms

Causes severe skin burns and eye damage. Eye contact may result in redness, pain, blurred vision, burning sensation. Corrosive to mucous membranes. Irritating to nose and throat. Ingestion may lead to stomach or esophageal burns, perforations or strictures.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: Not determined.

Specific Hazards Arising from the Chemical

Material is corrosive. Product is not flammable.

Hazardous Combustion Products: Caustic solutions will liberate flammable hydrogen gas from active metals. Extreme temperatures may liberate unidentified, possibly harmful organics and other compounds.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSNA/NIOSH (approved or equivalent) and full protective gear. Floor will become slippery if material is released and mixed with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions: Use personal protective equipment as required.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Methods and Material for Containment and Cleaning Up

Methods for Containment: Prevent further spillage if safe to do so. Recover product for reuse when possible. Sweep up contaminated material and place in suitable containers for disposal. Neutralize remaining residue before flushing to a sanitary sewer.

Methods for Cleaning Up: Place collected waste in DOT approved containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling.

Conditions for Safe Storage, Including and Incompatibilities

Storage Conditions: Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Store away from food stuffs. Protect from extreme temperatures.

Incompatible Materials: Strong acids. Avoid contact with active metals.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
Sodium dichloroisocyanurate, dihydrate, 51580-86-0	5 mg/m ³	3 mg/m ³	-
Sodium Tripoly Phosphate, 7758-29-4	15 mg/m ³	15 mg/m ³	-

Appropriate Engineering Controls

Engineering Controls Apply technical measures to comply with occupational exposure limits. Eye wash stations. Showers.

Individual Protections Measures, such as Personal Protective Equipment

Eye/Face Protection: Chemical anti-splash safety goggles.

Skin and Body Protection: Rubber gloves or vinyl gloves. Long sleeve shirt and long pants.

Respiratory Protection: Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation, wear respiratory protection.

General Hygiene Considerations: Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
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Information and Basic Physical and Chemical Properties

Physical State: Powder

Odor: Chlorine

Appearance: White Granular Powder

Color: White

Odor Threshold: Not determined

Property	Value	Property	Value
pH – 1% solution	Approx: 12.8	Melting/freezing point	Not determined
Boiling point	Not applicable	Flash point	Not flammable
Evaporation rate	Not determined	Flammability	Not flammable
Flammability limits/ air	Not determined	Vapor pressure	Not applicable
Vapor density	Not applicable	Specific gravity	Not applicable
Water solubility	Soluble	Solubility in other solvents	Not determined
Partition coefficient	Not determined	Auto-ignition temp	Not determined
Decomposition temp	Not determined	Kinematic viscosity	Not determined
Dynamic Viscosity	Not determined	Explosive properties	Not determined
Oxidizing properties	Not determined	Bulk Density	1.45

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children. Extreme temperatures.

Incompatible Materials

Strong acids. Avoid contact with active metals

Hazardous Decomposition Products

Caustic solutions will liberate flammable hydrogen gas from active metals. Extreme temperatures may liberate unidentified, possibly harmful organics and other compounds.

SECTION 11: TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure****Product Information**

Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns.
Inhalation	Avoid breathing dust, vapors, or mist.
Ingestion	Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hydroxide 1310-73-2	-	= 1350 mg/kg (Rabbit)	-
Sodium Triphosphate 7758-29-4	= 3100 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	-
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	-	-
Sodium dichloroisocyanurate, dihydrate, 51580-86-0	5 mg/m ³	3 mg/m ³	-

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity Not classifiable as a human carcinogen.

Numerical Measures of Toxicity-Product

Not determined

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: DISPOSAL CONSIDERATIONS**Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Sodium Hydroxide, 1310-73-2	Toxic; Corrosive

SECTION 14: TRANSPORT INFORMATION

Based on package size, product may be eligible for limited quantity exception. Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT NA 1759, CORROSIVE SOLID, N.O.S. (Contains Sodium Hydroxide), 8, PG III,

SECTION 15: REGULATORY INFORMATION

International Inventories

Legend:

Not determined

US Federal Regulations

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium Hydroxide, 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

Section 313 of Sara Title III

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Component	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Sodium Hydroxide, 1310-73-2	1000 lb			X

US State Regulations

California Proposition 65

Calif. Prop. 65 Warning: This product may contain a trace amount of one or more of the chemicals on the California list of known carcinogens or substances known to cause birth defects or other reproductive harm. These are not added to the product but occur naturally in the raw materials or processing equipment.

SECTION 16: OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Reactivity	Personal Protection
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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of publication. The information is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet