1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

ABCO Products of Sacramento
P.O. Box 188469
Sacramento, CA 95818

Contact: ABCO Products of Sacramento
Phone: +1-916-447-9931
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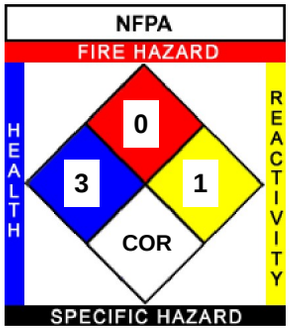
Product Name: TECH SC
Revision Date: 1/4/2015
Version: 1
SDS Number: 117
Common Name: Strong Alkaline Cleaner
CAS Number: MIXTURE
Product Code: C-29
Chemical Family: Strong Alkaline Cleaner
Chemical Formula: *** PROPRIETARY ***

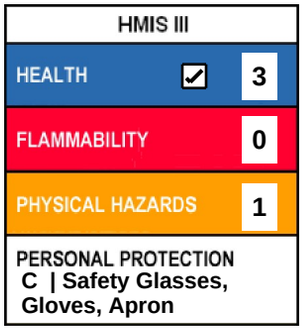
Emergency Phone: +1-800-424-9300 (CHEMTREC)

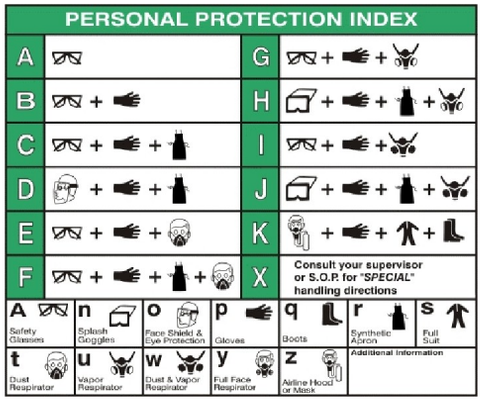
2 HAZARDS IDENTIFICATION

NFPA:
HMIS III:

Health = 3, Fire = 0, Reactivity = 1
H*3/F0/PH1







GHS Signal Word:
DANGER

GHS Hazard Pictograms:

GHS Classifications:
Physical, Corrosive to Metals, 1
Health, Acute toxicity, 4 Oral
Health, Skin corrosion/irritation, 1 A
Health, Specific target organ toxicity - Single exposure, 3

GHS Phrases:
H290 - May be corrosive to metals
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation

GHS Precautionary Statements:
P234 - Keep only in original container.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P262 - Do not get in eyes, on skin, or on clothing.
P264 - Wash skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P321 - Specific treatment (see supplementary first aid instructions on this label).
P332+313 - If skin irritation occurs: Get medical advice/attention.
P337+313 - If eye irritation persists: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P403+233 - Store in a well ventilated place. Keep container tightly closed.
P404 - Store in a closed container.
P405 - Store locked up.
P501 - Dispose of contents/container to an approved waste disposal plant.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Percentage	Chemical Name
1310-73-2	<80%	Sodium hydroxide, solid
N/A	15-20%	Proprietary, non-hazardous, non-regulated
497-19-8	<10%	Carbonic acid disodium salt
None	0-5%	Trade Secret*

***The specific chemical identities of the ingredients of this mixture labeled as "Trade Secret" are considered to be proprietary and are withheld in accordance with the provisions of 29CFR1910.1200 Sect. (i) Trade Secrets.**

4 FIRST AID MEASURES

Inhalation: Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Take off contaminated clothing and shoes immediately. Wipe/brush off as much chemical as possible from skin BEFORE flushing skin with water (water will react exothermically with large amounts of residual dry chemical, potentially causing more severe burns). Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. If reddening develops and/or persists, obtain medical attention.

Eye Contact: Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention. Continue rinsing eyes during transport to hospital.

Ingestion: Rinse mouth with water. Give 3-4 glasses of water or milk to dilute stomach contents. Do NOT induce vomiting. If vomiting occurs, give more water or milk. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed:
The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11.

Indication of any immediate medical attention and special treatment needed:
No data available.

5 FIRE FIGHTING MEASURES

Flammability:	No data available
Flash Point:	DNA
Flash Point Method:	DNA
Burning Rate:	No data available
Autoignition Temp:	No data available
LEL:	DNA
UEL:	DNA

Extinguishing Media:
Water Spray
Carbon Dioxide
Alcohol-Resistant Foam
Dry Chemical

Special Hazards Arising From the Substance or Mixture:
Carbon Oxides
Phosphorous Oxides
Sodium Oxides

Advice for Firefighters:
Firefighters should wear full-face, positive-pressure respirators.

Further Information:
If incinerated, may release toxic fumes.
Gives off Hydrogen by reaction with reactive metals (Zinc & Aluminum) and their alloys (Brass, etc.). Hydrogen is flammable and potentially explosive. Use caution.
Use water spray to cool unopened containers.
See Section 7 for more information on safe handling.

See Section 8 for more information on personal protection equipment.
See Section 13 for disposal information.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment, including dust respirator.
Avoid dust formation.
Avoid breathing dust.
Keep from contacting skin or eyes.
Avoid breathing vapors, mist or gas.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

Environmental precautions:
Prevent further release (leakage/spillage) if safe to do so.
Do not allow product to enter drains.
Do not allow to drain to environment.

Methods and materials for containments and cleaning up:
Pick up and arrange disposal without creating dust.
Sweep up, shovel or collect spillage with an electrically protected vacuum cleaner.
Place contaminated material into suitable, closed containers for disposal.
Dispose of contaminated material according to Section 13.
After spillage has been collected, area may be flushed with water or wet-brushed.
Ensure adequate ventilation.

Reference to other sections:
Comply with federal, state and local regulations on reporting spills.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for information on proper disposal.

7 HANDLING AND STORAGE

Handling Precautions:
Avoid formation of dust or aerosols.
Avoid breathing vapors, mist or dust.
Avoid contact with eyes, skin, or clothing.
Use approved, original containers only.
Keep containers closed when not in use.
Do not expose containers to open flame, excessive heat, or direct sunlight.
Do not puncture or drop containers.
Handle with care and avoid spillage on the floor.
Keep material out of reach of children.
Keep material away from incompatible materials.
Do not use corrosive-sensitive materials for handling product.
Wash thoroughly after handling.
Ensure adequate ventilation.

Storage Requirements:
Keep away from heat, sparks and flames.
Do not store in direct sunlight.
Store away from strong acids, strong bases, strong reducing agents, strong oxidizing agents, organic materials, water, chlorinated solvents, reactive metals (Zinc & Aluminum) and their

alloys (Brass), Alkali metals (Lithium, Sodium, Potassium, etc.), Tin & Tin oxides, Lead, Phosphorous & Phosphorous Pentoxide, Nitro compounds (Nitromethane, etc.), Azides, Anhydrides and Halogens.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Personal Protective Equip: Eye/face protection:
When using material use safety glasses, gloves and apron according to HMIS PP, C. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection:
Handle with gloves made from Neoprene, Nitrile or Buma rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

Body Protection:
Chemically resistant gloves, apron and safety glasses are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

Respiratory protection:
Full-face dust/vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds.

Control of environmental exposure:
Prevent leakage or spillage if safe to do so. Do not let material enter drains.

Components with workplace control parameters:

Component(s): Sodium Hydroxide, solid
CAS No(s): 1310-73-2
USA OSHA Table Z-1 Limits for Air Contaminants (C): 2 mg/m^3
USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminant (TWA): 2 mg/m^3
USA ACGIH (C/TLV): 2 mg/m^3
USA ACGIH (CEIL/TLV): 2 mg/m^3
USA NIOSH Recommended Exposure Limits (C): 2 mg/m^3

Biological occupational exposure limits:

Contains no substances with biological occupational exposure limits values.

Derived No Effect Level (DNEL):

Component(s): Sodium Hydroxide, solid
CAS No(s): 1310-73-2
Inhalation - Workers (Long-term local effects): 1 mg/m^3

Inhalation - Consumers (Long-term local effects): 1 mg/m^3

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White, Granular Powder		
Physical State:	Solid	**Odor:**	Surfactant-Like
Odor Threshold:	Not determined	**Molecular Formula:**	MIXTURE
Particle Size:	No data available	**Solubility:**	100%
Spec Grav./Density:	DNA	**Softening Point:**	Not determined
Viscosity:	Not determined	**Percent Volatile:**	DNA
Sat. Vap. Conc.:	DNA	**Heat Value:**	Not determined
Boiling Point:	Not determined	**Freezing/Melting Pt.:**	Not determined
Flammability:	(solid, gas): Not determined	**Flash Point:**	DNA
Partition Coefficient:	Not determined	**Octanol:**	Not determined
Vapor Pressure:	(mm Hg @ 20 °C): DNA	**Vapor Density:**	(air = 1): Not determined
pH:	@ 1%: > 13.5	**VOC:**	DNA
Evap. Rate:	DNA	**Bulk Density:**	Not determined
Molecular weight:	MIXTURE	**Auto-Ignition Temp:**	Not determined
Decomp Temp:	Not determined	**UFL/LFL:**	DNA

Percent Phosphorous: <1.0%

10 STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Incompatibilities, flames, ignition sources.
Materials to Avoid:	Strong acids, strong bases, strong reducing agents, strong oxidizing agents, organic materials, water, chlorinated solvents, reactive metals (Zinc & Aluminum) and their alloys (Brass), Alkali metals (Lithium, Sodium, Potassium, etc.), Tin & Tin oxides, Lead, Phosphorous & Phosphorous Pentoxide, Nitro compounds (Nitromethane, etc.), Azides, Anhydrides and Halogens.
Hazardous Decomposition:	Carbon Oxides, Phosphorous Oxides and Sodium Oxides.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Component(s): Sodium Hydroxide, solid; Carbonic acid disodium salt; Trade Secret
CAS No(s): 1310-73-2; 497-19-8; None

Acute Toxicity:
LD50 Oral - Rat: 3.95 mg/kg
LDL Oral - Rabbit: 500 mg/l
LD50 Dermal - Rabbit: 1,350 mg/kg
LC50 Inhalation - Rat: 5,750 mg/l (2 h)

Skin Corrosion/Irritation: Rabbit skin - Corrosive (24 h).

Serious Eye Damage/Eye Irritation: Rabbit eyes - Corrosive (24 h).

Respiratory or Skin Sensitation: Will no occur.

Germ Cell Mutagenicity: No data available.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity - Single Exposure: Respiratory system - May cause respiratory irritation.

Specific Target Organ Toxicity - Repeated Exposure: No data available.

Aspiration Hazard: No data available.

Additional Information:
Component: Sodium Hydroxide, solid; RTECS: WB4900000
Component: Carbonic acid disodium salt; RTECS: VZ4050000

12 ECOLOGICAL INFORMATION

Component(s): Sodium Hydroxide, solid; Carbonic acid disodium salt; Trade Secret
CAS No(s): 1310-73-2; 497-19-8; None

Toxicity:

Toxicity to fish:
LC50 - Oncorhynchus mykiss (Rainbow Trout): 5.5 mg/l (96 h)
LC50 - Gambusia affinis (Mosquito Fish): 125 mg/l (96 h)
LC50 - Lepomis macrochirus (Bluegill): 300 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates:
EC50 - Daphnia magna (Water Flea): 265 mg/l (48 h)
Immobilization EC50 - Daphnia: 40.38 mg/l (48 h)

Persistence and Degradability:
No data available.

Bioaccumulative potential:
No data available.

Mobility in Soil:
No data available.

Results of PBT and vPvB assessment:
Not required/conducted.

Other Adverse Effects:
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

13 DISPOSAL CONSIDERATIONS

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

14 TRANSPORT INFORMATION

DOT Class: Corrosive (8) #8
UN #: UN 3262, Class: 8, Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (containing Sodium Hydroxide, solid)

DOT (US)
UN Number: 3262
Class: 8
Packing Group: II
ERG #: 154
Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (containing Sodium Hydroxide, solid)
Marine Pollutant: No
Poison Inhalation Hazard(s): No

IMDG
UN Number: 3262
Class: 8
Packing Group: II
EMS-No: F-A, S-B
Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (containing Sodium Hydroxide, solid)
Marine Pollutant: No

IATA
UN Number: 3262
Class: 8
Packing Group: II
ERG #: 154
Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (containing Sodium Hydroxide, solid)
Marine Pollutant: No

15 REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

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*Sodium hydroxide, solid (1310732 <80%) CERCLA, CSWHS, MASS, NJHS, OSHAWAC, PA, SARA311/312, TSCA, TXAIR

*Carbonic acid disodium salt (497198 <10%) NJHS, PA, SARA311/312, TSCA

*Trade Secret (None 0-5%) TSCA

REGULATORY KEY DESCRIPTIONS

CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
MASS = MA Massachusetts Hazardous Substances List
NJHS = New Jersey Right to Know Hazardous Substances
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
SARA311/312 = SARA 311/312 Toxic Chemicals
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

16 OTHER INFORMATION

Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that ABCO Products of Sacramento believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of ABCO Products of Sacramento's control, ABCO Products of Sacramento makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.

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