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Safety Data Sheet Chem Care CC-3

1. IDENTIFICATION

Synonyms none
 CAS# see Part 3, below
 Material Use alkaline cleaner
 USDA approved for the food processing industry

IN AN EMERGENCY CALL: INFOTRAC 1-800-535-5053

2. HAZARD IDENTIFICATION

GHS Class (Category)	skin, eye corrosive (1)	acute oral (4)	STOT (3)
Signal Words	DANGER	WARNING	WARNING
Hazard Statements	causes severe skin burns & eye damage (H314)	harmful if swallowed (H302)	(mist inhalation) may cause respiratory tract irritation (H335)



GHS Precautionary Statements for Labeling

P260, P262 Do not breathe mist or spray. Do not get in eyes, on skin or on clothing.
 P264 Wash thoroughly after handling.
 P280 Wear eye protection, protective gloves and clothing of butyl, neoprene or rubber.
 P313 & P333 If skin irritation or rash occurs, get medical advice/attention.
 P304 & P340 If inhaled, remove person to fresh air and keep comfortable for breathing.
 P305, P351, P338 If in eyes, rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

3. COMPOSITION

	CAS NUMBER	%	TLV ppm / mg/m ³	LD ₅₀ (mg/kg) ORAL	LD ₅₀ (mg/kg) SKIN	LC ₅₀ ppm INHALATION
Sodium Hydroxide	1310-73-2	40-60%	2	over 500	not known	not known
Sodium Gluconate	on request	1-5%	not listed	>2000	not known	not known
Alkylpolyglucoside (surfactant)	on request	<1%	not listed	>2000	>2000	not known
Water	7732-18-5	balance	not toxic	90,000	not toxic	not toxic

4. FIRST AID

SKIN: Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until laundered. Seek medical help promptly if there is persistent itching or redness in the affected area.
 EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance if there is persistent irritation.
 INHALATION: Remove from contaminated area promptly. **CAUTION: Rescuer must not endanger himself!** If victim's breathing stops, administer artificial respiration and seek medical aid promptly.
 INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Corrosive substance: apply first aid immediately! Inadvertent inhalation of vomited material may seriously damage the lungs. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

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5. FLAMMABILITY & FIRE-FIGHTING

Flash Point	cannot flash
Autoignition Temperature	cannot flash
Flammable Limits	cannot flash
Combustion Products	oxides of sodium, nitrogen; part oxidized hydrocarbon fragments
Firefighting Precautions	as for materials sustaining fire; compatible with water; firefighters must wear SCBA
Static Discharge	cannot accumulate a static charge

6. ACCIDENTAL RELEASE MEASURES

Leak Precaution	dike to control spillage and prevent environmental contamination
Handling Spill	neutralise spill carefully with dilute acetic acid or sodium bicarbonate (baking soda); absorb on an inert sorbent, sweep, shovel & store in closed containers for disposal

7. HANDLING & STORAGE

Store above 15°C / 59°F and away from acids. Never cut, drill, weld or grind on or near this container, whether empty or full. Always replace drum, pail or IBC cap prior to moving the container!

Avoid generating or breathing product mist. If mist forms in use, install adequate ventilation to control airborne concentration to regulated limits (*Part 8, below*). Avoid all contact with skin & wash work clothes frequently. An eye bath & safety shower must be available near the workplace. *If used in pressure wash equipment – even diluted – wear a body suit, boots of appropriately resistant material (Part 8) and face shield, plus a respirator with particulate filter and acid gas cartridge.*

8. EXPOSURE CONTROL & PERSONAL PROTECTION

Sodium Hydroxide:

ACGIH TLV	2mg/m ³	ACGIH STEL	not listed
OSHA PEL	2mg/m ³	OSHA STEL	not listed
Ventilation	avoid mist generation; if product mist is likely to form, excellent mechanical exhaust ventilation is required, OR see “Clothing”, below		
Hands	wear gloves of butyl, neoprene or rubber – <i>always confirm suitability with supplier</i>		
Eyes	safety glasses with side shields or chemical goggles – <i>always protect eyes!</i>		
Clothing	if splashing OR mist formation is possible, wear impermeable (hands, above) apron, boots, long sleeves & a face shield		

NOTE: Sodium Hydroxide dissolves leather & wool & other proteins. Do not wear leather boots or gloves!

9. PHYSICAL AND CHEMICAL PROPERTIES

NOTE: for Flash Point, Autoignition Temperature & Flammable Limits see Part 5.

Odor & Appearance	hazy, straw to amber, somewhat viscous, odorless liquid
Odor Threshold	not known – odorless
Vapor Pressure	as for water
Evaporation Rate (<i>Butyl Acetate = 1</i>)	as for water
Vapor Density (air = 1)	0.6 (<i>water</i>) – <i>no other volatile components</i>
Boiling Point	not measured; approx. 130°C / 266°F
Freezing Point	not measured; approx. 15°C / 59°F
Decomposition Temperature	not known – <i>no thermal decomposition until all water has evaporated</i>
Specific Gravity	1.46 (20/20°C)
Water Solubility	complete
Viscosity	30-40 centipoise (20°C / 68°F) – <i>syrupey liquid</i>
pH	>13.5 – <i>highly alkaline</i>

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10. REACTIVITY

Dangerously Reactive With	strong acids
Also Reactive With	severely damages wool, leather and silk
Chemical Stability	stable; will not polymerize
Decomposes in Presence of	none known
Decomposition Products	none apart from Hazardous Combustion Products
Mechanical Impact	not sensitive

11. TOXICITY INFORMATION**i. ACUTE EXPOSURE**

Skin Contact	corrosive to skin
Skin Absorption	nil; no systemic toxic effects by this route
Eye Contact	corrosive to eyes, may cause permanent damage
Inhalation	mist or spray is corrosive to respiratory passages
Ingestion	corrosive to mouth, throat & stomach; stomach pain, nausea, vomiting
Calculated LD ₅₀ (oral)	1140mg/kg (rat)
LD ₅₀ (skin)	<i>insufficient information to calculate</i>
LC ₅₀ (inhalation)	<i>insufficient information to calculate</i>

ii. CHRONIC EXPOSURE

General	prolonged or repeated exposure to dilute product may remove protective skin oils causing dermatitis
Sensitizing	not a sensitizer
Carcinogen/Tumorigen	not known to be a tumorigen or a carcinogen in humans or animals
Reproductive Effect	no known effect on humans or animals
Mutagen	not known to be a mutagen or teratogen in humans or animals
Synergistic With	not known

12. ECOLOGICAL INFORMATION**Sodium Hydroxide:**

Bioaccumulation	not a bioaccumulator
Biodegradation	inorganic product – cannot biodegrade
Abiotic Degradation	dilutes readily in surface water, neutralizing with dissolved CO ₂ to sodium carbonate; if calcium or magnesium ions are present, insoluble & immobile carbonates precipitate.
Mobility in soil, water	water soluble; moves readily in soil and water, <i>but see above</i>

Aquatic Toxicity

LC ₅₀ (Fish 96 hr)	125mg/liter (Gambusia affinis), 45mg/liter (Oncorhynchus mykiss) – <i>lethal due to alkalinity</i>
LC ₁₀₀ (Crustacea, 48hr)	100-150mg/liter (Daphnia magna); 125-1000mg/liter (freshwater insect larvae)
EC ₅₀ (Algae)	<i>no information</i>
EC ₅₀ (Bacteria)	<i>no information</i>

NOTE: Lethal pH for freshwater fish is pH= 9. At this pH damage occurs to their mucus coating & their gills.

Sodium Gluconate:

Bioaccumulation	readily metabolized by all living organisms; cannot bioaccumulate
Biodegradation	biodegrades rapidly in the presence of oxygen; aerobic – 89% in 28 days; anaerobic – 100% in 35 days
Abiotic Degradation	estimated ½-life in air is 3.4 hours by photodegradation
Mobility in soil, water	water soluble; moves readily in soil & water; combines with soil Ca ⁺⁺ & Mg ⁺⁺ ions to water insoluble products
Aquatic Toxicity	<i>data below from US EPA and from OECD SIDS documents</i>
LC ₅₀ (Fish, 96hr)	2.5 & 5.2mg/liter (species not specified), >100mg/liter (Oryzas latipes)
EC ₅₀ (Crustacea, 48hr)	5.2mg/liter (Daphnia magna), 4.5mg/liter (Mysid shrimp), >1000mg/liter (Daphnia magna)
EC ₅₀ (Algae)	1.3mg/liter (“green algae”), >1000mg/liter (Selenastrum capricornutum & Desmodesmus subspcatus)
EC ₅₀ (Bacteria)	>5000mg/liter (Pseudomonas putida)

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12. ECOLOGICAL INFORMATION, cont'd

Alkylpolyglucoside:	<i>data below from the manufacturer – BASF</i>
Bioaccumulation	cannot bioaccumulate
Biodegradation	biodegrades readily & rapidly in the presence of oxygen; no rate data given
Abiotic Degradation	not known
Mobility in soil, water	water soluble; moves readily in soil & water
Aquatic Toxicity	
LC ₅₀ (Fish, 96hr)	10-100mg/liter (Danio rerio)
EC ₅₀ (Crustacea, 24hr)	10-100mg/liter (Daphnia magna)
EC ₅₀ (Algae)	10-100mg/liter (Desmodesmus subspicatus)
NOEL (Bacteria)	>100mg/liter (sewage sludge)

13. DISPOSAL CONSIDERATIONS

- Waste Disposal **do not flush directly to sewer**; if there are no heavy metals or hazardous organic materials present, after neutralizing with dilute acetic acid or sodium bicarbonate, flush to sewer with plenty of water
- Containers **Drums** should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.
Pails must be vented and thoroughly dried prior to crushing and recycling.
IBCs (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5 years). Steel containers must be inspected, pressure tested & recertified every 5 years.
Warning: never cut, drill, weld or grind on or near this container, even if empty.

14. TRANSPORT INFORMATION**USA 49 CFR & Canada/International TDG**

Product Identification Number	UN – 3266
Shipping Name	Corrosive liquid, basic, inorganic, N.O.S. (sodium hydroxide)
Classification	Class 8; Packing Group III
Marine Pollution	<i>not a marine pollutant</i>
ERAP Required	<i>No</i>
Reportable Quantity (RQ)	<i>2300lbs (sodium hydroxide)</i>

**15. REGULATIONS**

Canada DSL	on inventory
U.S.A. TSCA	on inventory
Europe EINECS	on inventory

16. OTHER INFORMATION

Date of Preparation May 2015

Date of Revision -

Prepared for Tomco-Harwel, by Peter Bursztyn

With data from the Registry of Toxic Effects of Chemical Substances (RTECS), Hazardous Substance Data Base (HSDB), Cheminfo (CCOHS), OSHA, IUCLID Datasheets (European Chemical Substance Information System - ESIS), & others sources (below if used), as required/available

last page of SDS**PLEASE ENSURE THAT THIS SDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.****EMERGENCY INFORMATION: INFOTRAC 1-800-535-5053**