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Safety Data Sheet Bleach-Sodium Hypochlorite 5.25%

1. IDENTIFICATION

CAS# 7681-52-9

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

2. HAZARD IDENTIFICATION



GHS Class

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Signal Words **DANGER**

Hazard Statements

Causes severe skin burns and eye damage. (H314)
 May cause damage to organs.(H370)
 Very toxic to aquatic life with long lasting effects.(H410)

GHS Precautionary Statements for Labeling

P301,P330,P331 IF SWALLOWED, rinse mouth. Do NOT induce vomiting.
 P303,P361,P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 P363 Wash contaminated clothing before reuse.
 P304, P340 IF INHALED, Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305,P351,P338 IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER doctor/physician.
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 P264 Wash thoroughly after handling.
 P405 Store locked up.
 P273 Avoid release to the environment.
 P501 Dispose of contents/container to an approved waste disposal plant.
 P280 Wear protective gloves (gauntlet-style) and clothing of neoprene.

3. COMPOSITION

	CAS NUMBER	%
Sodium Hydroxide	1310-73-2	0.2
Sodium Chloride	7647-14-5	4.12
Sodium Hypochlorite	7681-52-9	5.25
Water	7732-18-5	balance

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4. FIRST AID

- SKIN:** Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing contaminated clothes and shoes.
- EYES:** Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
- INHALATION:** Move to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- INGESTION:** Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

5. FLAMMABILITY & FIRE-FIGHTING

Flash Point	cannot burn
Autoignition Temperature	cannot burn
Flammable Limits	cannot burn
Combustion Products	carbon monoxide, nitrogen oxides, sulphur oxides, ammonia, sodium & potassium oxides
Firefighting Precautions	as for materials sustaining fire; 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** recover free liquid with corrosion-resistant pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for disposal

7. HANDLING & STORAGE

Store and use 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 product concentration to regulated limits (see Part 8, below). Wear suitable protective clothing & equipment. Avoid all contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

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	mechanical ventilation may be required to maintain airborne vapor or mist concentrations below TLV		
Hands	wear gauntlet-style neoprene gloves – <i>other types also protect; always confirm suitability with supplier</i>		
Eyes	safety glasses with side shields and face shield – <i>always protect eyes!</i>		
Clothing	impermeable (hands, above) apron, boots, hat and long sleeves, if splashing is anticipated		

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9. PHYSICAL AND CHEMICAL PROPERTIES

Odor & Appearance	clear, yellow liquid with a pungent, chlorine odor
Odor Threshold	N/A
Vapor Pressure	62.18 @ 55 °C
Evaporation Rate (<i>Butyl Acetate = 1</i>)	N/A
Vapor Density (air = 1)	N/A
Boiling Point	102°C / 216°F
Freezing Point	-7°C / 20°F
Specific Gravity	1.08
Water Solubility	complete
Viscosity	1.10 Centistokes @ 25 °C
pH	12.4

10. REACTIVITY

Conditions to Avoid	Exposure to air or moisture over prolonged periods; Excessive heat, exposure to light, reduced alkalinity, and contamination of any kind. Reduced alkalinity or contamination can result in evolution of chlorine (toxic) gas. Decrease in pH such as by mixing with other than water, and contamination with items mentioned below as incompatible can result in evolution of chlorine (toxic) gas.
Chemical Stability	Stable under normal conditions of use and storage; Stability decreases with increased concentration, heat, light exposure, decrease in pH and contamination with heavy metals such as nickel, cobalt, copper and iron.
Incompatible Materials	Strong acids and bases; Oxidizing agents; Ether, ammonia compounds, hydrogen peroxide, all acids, alum, reducing agents, human or animal waste, oxidizable or combustible materials such as wood, cloth or organic materials, organic chemicals such as solvents and solvent based cleaning compounds, fuels and fuel oils, amines, methanol, propane, organic polymers, ethylene glycol, insecticides, heavy metals such as iron, copper, magnesium, aluminium, tin, steel, stainless steel, carbon steel, manganese, zinc, chromium, nickel, cobalt and their alloys, sodium sulphite, sodium bisulfite, sodium hydrosulfite, sodium thiosulfate. Do not mix this product with any of the foregoing or hazardous gases can result.
Decomposition Products	Toxic gases and vapors apart

11. TOXICITY INFORMATION

i. ACUTE EXPOSURE

Skin Contact	corrosive to skin if not removed promptly
Skin Absorption	yes, slowly; toxic effects unlikely by this route
Eye Contact	corrosive to eyes; <i>may cause permanent damage if not removed promptly</i>
Inhalation	product mist irritates respiratory system
Ingestion	corrosive to mouth, throat and stomach; ingestion may be fatal
Calculated LD ₅₀ (oral)	8200mg/kg (rat) – <i>this calculation used the most severe LD₅₀ values available</i>
Calculated LD ₅₀ (skin)	10000mg/kg (rabbit) – <i>this calculation used the most severe LD₅₀ values available</i>
LC ₅₀ (inhalation)	<i>insufficient data to calculate</i>

ii. CHRONIC EXPOSURE

General	prolonged or repeated exposure may cause dermatitis
Sensitizing	no component is known to be a sensitizer
Carcinogen/Tumorigen	no component is known to be a tumorigen or a carcinogen in humans or animals
Reproductive Effect	no component is known to affect human or animal reproduction
Mutagen	no component is known to be a mutagen or teratogen in humans or animals
Synergistic With	not known

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12. ECOLOGICAL INFORMATION**Aquatic Toxicity**

LC ₅₀ (Fish, 96hr)	0.06-0.11mg/liter (Pimephales promelas)
EC ₅₀ (Crustacea, 24hr)	N/A
EC ₅₀ (Algae 24hr)	0.095mg/liter (Skeletonema costatum)
EC ₅₀ (Bacteria)	N/A

Bioaccumulation No information available

Biodegradation No information available

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

13. DISPOSAL CONSIDERATIONS

Waste Disposal **do not flush to sewer;** neutralise (carefully) with suitable acidic waste; ready biodegradability of components suggests that biological destruction in a suitable reactor is the best option

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 **Not regulated**

Shipping Name

Classification

Marine Pollution *not a marine pollutant*

ERAP Required *No*

15. REGULATIONS

Canada DSL **all components on inventory**

U.S.A. TSCA **all components on inventory**

Europe EINECS **all components on inventory or exempt as polymers**

U.S.A. Regulations:

SARA 313 Reportable Not listed

SARA 311/312 Acute Health Hazard

California Proposition 65 no components are reportable

Reportable Quantity 100lbs

16. OTHER INFORMATION

Date of Preparation **April 2015**

Date of Revision **-**

Prepared for Tomco-Harwel

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

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