NOTE: Read and understand entire product label and material data sheet before opening, using, storing, or transporting this produ

ALL PURE

All Pure Chemical Company
26700 S. Banta Road
P.O. Box 268
Tracy, California 95376
(209) 836-5343

EMERGENCY PHONE NO.

MATERIAL SAFETY DATA SHEET

(essentially "similar" to OSHA form 20)

90-006

Product Name: GENERIC BLEACH

Code Number:

Chemical Name and Molecular Formula (primary ingredient): Sodium Hypochlorite

CAS No.: 7681-52-8

EPA Reg. No.:

Chemical Family: halogen compound

Synonyms: HOUSEHOLD BLEACH

General Description: Yellowish liquid with slight chlorine odor

Chemical Name and Molecular Formula (Secondary ingredient > 1% by weight): N/A

CAS No.: N/A

Chemical Family: N/A

General Description: N/A

MATERIALS OR COMPONETS	%	HAZARD DATA
Sodium Hypochlorite	5%	See toxicity section

Boiling Point / Range: 110 °C 230 °F Decomposes	Melting Point: N/A °C °F	Freezing Point: °C NDA*
Calculated Molecular Weight: 74.5	Specific Gravity (H_2O=1): 1.02 @ 20°C	Vapor Pressure (mmHg): N/A
Vapor Density (Air = 1): N/A	Solubility in Water: Complete	% Volatiles by Volume: 95.0%
Evaporation Ratio: ☐ Ether = 1 ☒ Water = 1 ☐ Butyl Acetate = 1: 1		Other: N/A

Appearance and Odor: Yellowish liquid, slightly heavier than water with a mild chlorine odor.

Flash Point: °C N/A °F	Test Method: N/A
Flammable Limits: Lower N/A % Upper %	Autoignition Temperature: °C N/A °F

Extinguishing Media: N/A

☐ Water Spray ☐ Water Fog ☐ Water Stream ☐ CO_2 Other:

☐ Dry Chemical ☐ Earth or Sand ☐ Alcohol Foam ☐ Foam

EMERGENCY FIRST AID NOTE: Call Fire Dept, Paramedics, Emergency Ambulance Im ...ately

Ingestion

☐ Induce Vomiting ☒ Do Not Induce Vomiting ☒ Get Medical Attention ☐ Give Plenty of Water Drink large quantities of gelatin solution or milk. If these are not available, drink large quantities of water. Do not give vinegar or other acids. Do not give any liquid to an unconscious person. Keep warm and wait for ambulance.

Dermal

☒ Flush with soap and water ☐ Get medical Attention ☒ Contaminated Clothing (remove and launder)
☒ Contaminated shoes (destroy) ☐ Other

Eye Contact

☒ Flush with Plenty of water for 15 minutes ☒ Get Medical Attention ☒ Other Hold eyelids open. If emergency personnel have not arrived within 15 minutes, flush an additional 15 minutes with water.

Inhalation

☒ Remove to Fresh Air ☐ If not Breathing give Artifical Respiration ☐ Give Oxygen ☒ Get Medical Attention ☐ Other

PRECAUTIONS

Precautionary Labeling

☒ Wash Thoroughly after Handling ☒ Do not get in eyes, on skin or clothing ☐ Do no breathe vapor, mist, gas, dust
☐ Keep away from Heat, Sparks, and Open Flames ☒ Store in Tightly Closed Containers ☐ Do not store near Combustibles
☒ Keep from contact with clothing and other combustible materials ☒ Empty Container May Contain Hazardous residues
☐ Use Explosion proof equipment ☐ Keep Container Closed ☒ Other Handling and Storage Conditions Do not mix with feces, urine, ammonia, acids, detergents, other pool chemicals. Hazardous gases may be evolved.

SPILL OR LEAKAGE

Steps to be taken if material is spilled or otherwise released:

☒ Flush with water ☐ Absorb with Sand or inert Material ☐ Neutralize ☐ Sweep or Scoop up and remove
☐ Keep upwind; Evacuate Closed Spaces ☒ Prevent Spread or spill ☐ Dispose of Immediately With small spill dilute with water and flush to sanitary sewer. With large spills, neutralize with sodium sulfite, bisulfite or thiosulfite, and then flush to sanitary sewer.
☐ Avoid breathing gases or vapors ☐ Remove sources of ignition

Waste Disposal Method (Note: Consult Federal, State, or Local Authorities for Proper Disposal Procedures. Permits may be Required.

☒ Environmental Hazard ☒ Do not dispose of in lakes, streams, ponds or public waters
☒ Dilute with water and flush into sanitary sewer ☒ Do not contaminate food or feed ☐ Other

DOT Shipping Name, Hazard Classification, and UN Number 5¼% Sodium Hypochlorite, Corrosive Material, ORM-B NA1791

Placard Required

Other

FIRE AND EXPLOSION DATA CONTINUED

Special Fighting Procedures N/A

☐ Do Not Enter Building ☐ Do Not use Water ☐ Allow Fire to Burn ☐ Water May Cause Frothing

☐ Other:

Unusual Fire and Explosion Hazard

☐ Dust Explosion Hazard ☐ Sensitive to Shock ☐ Contamination ☐ Temperature

☒ Other Heat can cause evolution of toxic fumes. Reacts with acids. If possible, remove containers from fire area.

REACTIVITY DATA

Stability ☐ Stable ☒ Unstable

Conditions Contributing to Instability ☐ Contamination ☒ Thermal Decomposition ☒ Photo Degradation ☐ Polymerization

Incompatability (Avoid Contact With)

☒ Strong Acids ☐ Strong Alkalis ☒ Strong Oxidizers ☒ Other ammonia, feces, urine, many organic and inorganic chemicals such as paint, kerosene, paint thinners, shellac, other pool chemicals, etc.

Hazardous Decomposition Products (Thermal and Other) chlorine and other hazardous gases

Conditions to Avoid

☒ Heat ☐ Open Flames ☐ Sparks ☐ Ignition Sources ☐ Other

TOXICITY

Eye Albino rats [1] 53.3/110.0 (category I) in unwashed eyes; 41.0/110.0 (category I) in washed eyes

Dermal (Acute) LD_{50} (albino rats) greater than 3000 mg/k (category III)[1]

Oral (Acute) LD_{50} (albino rats) = 6200 mg/k (category IV); 95% confidence limits

Inhalation (Acute) Liquid compound. No data available.

Chronic and Sub-Chronic No data available

Other Primary skin irritation (albino rats) 8.0/8.0 (category I)[1]

HEALTH HAZARD INFORMATION

Permissible Exposure Limit (TLV, TWA, STEL or Ceiling) No data available. Liquid compound

Skin Irritation ☐ Severe ☒ Moderate when promptly washed off

Eye Irritation ☒ Severe ☐ Moderate ☐ Mild (Transien

Corrosivity Skin NDA ☐ 4 hour DOT ☐ 24 hour CPSC

Corrosivity Eye ☒ Reversible ☐ Irreversible if promptly flu ed with water ☐ May Cause Blindness

Sensitization NDA ☐ Skin ☐ Respiratory ☐ Allergen

Inhalation Effect NDA ☐ Narcotic Effect ☐ Cyanosis ☐ Asphyxiant ☐ Other

Lung Effects: NDA

SPECIAL PROTECTIC INFORMATION

VENTILATION REQUIREMENTS - *Always maintain exposure below permissible exposure limits* NDA

☐ Consult an industrial hygienist or environmental health specialist ☐ Local exhaust ☐ Use with adequate ventilation

☐ Check for air contaminant and oxygen deficiency ☐ Other (specify):

EYE

☒ Safety glasses ☒ Face shield ☒ goggles

HAND (GLOVE TYPE)

☒ Polyvinyl chloride ☒ Neoprene ☒ Butyl rubber ☒ Natural rubber
☒ Polyvinyl alcohol ☐ Other (specify): ☒ Polyethylene

RESPIRATOR TYPE - *Use only NIOSH/MESA approved equipment* Not required unless fire condition

☐ Self-contained ☐ Supplied air ☐ Can or cartridge gas or vapor ☐ Filter-dust, fume, mist ☐ Other (specify):

OTHER PROTECTIVE EQUIPMENT

☒ Rubber boots ☒ Apron ☒ Other (specify): Wear protective clothing when dispersing a large spill

CONTAINER DISPOSAL

Rinse with water and place in trash for collection. For returnable containers, reseal carefully and return for deposit refund.

ADDITIONAL INFORMATION/FOOTNOTES

*No Data Available

1 Industrial Biotest Laboratories, Inc. reported to Jones Chemicals, Inc. Special instructions: Store in a cool, dry place away from direct sunlight and heat, This product degrades with age. It is shipped with vented closu Containers not in upright position may leak. Always transport in upright position. Remove vented closures slowly.

Four day aquatic (static) toxicity tests in rainbow trout and bluegills:

	4 dat TL_{50} (ppm)	4 day TL_1 (ppm)	4 day TL_{99} (ppm)
Trout	1.94	2.75	1.38
Bluegill	5.3	10.3	2.8

48 HOUR AQUATIC TOXICITY (static) in Daphnia

48 hour TL_{50}	48 hour TL_1	48 hour TL_{99}
1.57 ppm	4.81 ppm	0.51 ppm

The acute oral median lethal dose in Bobwhite quail is 4.09 g/ k body weigh

The 8 day dietray LC_{50} in bobwhite quail is in excess of 5000. Similar results were found with mallard ducks.

Prepared by:	Date	Address	Phone
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PLEASE NOTE