UNIVERSAL LABORATORIES A DIVISION OF HANSON LORAN COMPANY

SAFETY DATA SHEET

EPA Reg. No.: 37982-20004-11399 • EPA Est. No.: 11399-CA-001

Chlor San Sodium Hypochlorite 5.25% Product Name UN/ID No. UN1791 Sodium Hypochlorite Recommended use of the chemical and restrictions on use Recommended use: Bleach for Industrial and Commercial Use Only Supplier: Universal Laboratories a Division of Hanson Loran Co. 6700 Caballero Blvd. Buena Park, CA. 90620 **Manufacturer:** Universal Laboratories a Division of Hanson Loran Co. **Print date:** December 21, 2016 **Responsible name:** K.B. In case of emergency: FOR CHEMICAL EMERGENCY Spill, Leak, Exposure or Incident Call INFOTRAC • 24-Hour Number 1-800-535-5053 or +1-352-323-3500 (outside USA) **Product type:** Mixture 2. Hazards identification Appearance: Clear yellow liquid Physical State: Liquid **Odor:** Chlorine **Classification** Skin Corrosion/irritation Category 1 Sub-category B Serious eye damage/eye irritation Category 1 **Signal Word:** Danger **Pictogram:**

Hazard Statement Causes severe skin burns and eye damage

1. Product and company identification

Precautionary Statements – Preventions

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements – Response

Immediately call a POISON CENTER or doctor/physician

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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 INHALED: 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.

Precautionary Statements – Storage

Store locked up

Precautionary Statements – Disposal

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

Other Hazards

Very toxic to aquatic life and long lasting effects Very toxic to aquatic life

3. Composition/information on ingredients	

Chemical Name	CAS No.	Weight %
Sodium hypochlorite	7681-52-9	5.25

4. First aid measures	
Eye contact:	Immediately flush with plenty of water. After initial flushing, remove any contact
	lenses and continue flushing for at least 15 minutes. Immediately call a POISON
	CENTER or doctor/physician.
Skin contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
	Rinse skin with water/shower. Wash contaminated clothing before reuse. Seek
	medical attention.
Inhalation:	IF INHALED: 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 plenty of water
	or milk immediately. Immediately call a POISON CENTER or doctor/physician.
Most important symptoms and	effects:
Symptoms	Causes severe skin burns and eye damage. May cause respiratory irritation.
•	Inhalation may cause burns. Ingestion causes acute irritation and burns to the
	man and the second the second the second sec

	mucous membranes of the mouth, trachea, esophagus and stomach.	
Indication of any immediate	nedical attention and special treatment needed	
Notes to Physician	Treat symptomatically.	
5 Fire-fighting measur	PS	

5. Fire-fighting measures

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media Not determined

Specific Hazards arising from the Chemical

Product is not flammable.

Hazardous Combustion Products None known

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equ	ipment and emergency procedures
Personal precautions:	Wear protective clothing as described in Section 8 of this safety data sheet
Environmental precautions:	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological information. See Section 13, Disposal Considerations, for additional information
Methods for Containment	Prevent further leakage or spillage if safe to do so. Dike spill area and cap leaking container as necessary to prevent further spreading of spilled material. Absorb spilled liquid and suitable material such as dirt or sand.
Methods for Clean-up	Pick up and transfer to properly labeled containers.

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. Wash face, dust/fume/gas/vapors/ spray
Conditions for safe storage, includ	ing any incompatibilities
Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store
	Store locked up. Keep from freezing.
Incompatible Materials	Strong mineral acids. Strong acids. Metals. Organic materials. Do not mix with
	other chemicals or cleaners.
8. Exposure controls/perse	onal protection
Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with
	occupational exposure limits established by the region specific regulatory bodies.
Appropriate engineering controls	
Engineering Controls	Ensure adequate ventilation, especially in confined areas. Local exhaust ventilation
	recommended. Eyewash stations. Showers.
Individual-protection measures, su	ich as personal protective equipment
Eye/Face Protection	Chemical Anti-splash safety goggles
Skin and Body Protection	Rubber gloves. Suitable protective clothing
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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state
Flash Point
Color
Odor
Odor Threshold
рН
Melting Point/Freezing Point
Boiling Point/Boiling Range
Flash Point
Evaporation Rate
Flammability (Solid, Gas)
Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure
Vapor Density

Liquid Clear yellow liquid Clear yellowish Chlorine Not determined $^{100^{\circ}C} / ^{212^{\circ}F}$ Not applicable Not available Liquid-not applicable Not applicable Not applicable 18 mmHg 2.5 (Air1=1) Specific Gravity Water Solubility Solubility in other solvents Solubility in other solvents Partition Coefficient Auto-ignition Temperatures Decomposition Temperatures Kinematic Viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties

10. Stability reactivity

Reactivity Chemical Stability Possibility of Hazardous Reactions Hazardous Polymerization Conditions to Avoid Incompatible Materials 1.09 (1=Water) Completely soluble Not determined Not determined Not available Not determined Not determined Not determined Not determined Not determined

Not reactive under normal conditions Stable under recommended storage conditions None under normal processing Hazardous polymerization does not occur. Excessive heat. Avoid direct sunlight. Environment Strong mineral acids. Strong acids, Organic materials, Do not mix with other chemicals or cleaners. None known based on information supplied.

Hazardous Decomposition Products

11. Toxicological information

Information on likely routes of exposure

Product Information
Eye Contact
Skin Contact
Inhalation
Ingestion

Causes severe eye damage Causes severe skin burns Avoid breathing vapors or mists Do not taste or swallow

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-2	>90 mL/kg (Rat)	-	-
Sodium Hypochlorite 7681-52-9	= 8200 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-

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

The table below indicates weather each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested. Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9		Group 3		

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

Numerical measures of toxicity

Not determined

12. Ecological information

Exotoxicity

Very toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Sodium hypochlorite	0.095:24 h Skeletonema	0.06 – 0. 11: 96 h Pimephales		2.1: 96 h Daphnia magna mg/L
7681-52-9	Costatum mg/L EC50	promelas mg/L LC50		EC50 0.044: 48
	_	Flow-through 4.5 – 7.6: 96h		H Daphnia magna mg/L EC50
		Pimephales promelas mg/L		Static
		LC50 static 0.4 – 0.8: 96 h		
		Lepomis macrochirus mg/L		
		LC50 static 0.28 – 1:96 h		
		Lepomis macrochirus mg/L		
		LC50 flow-through 0.05		
		0.771:96 h Oncorhynchus		
		mykiss mg/L LC50		
		Flow-through 0.03 – 0.19:96		
		h Oncorhynchus mykiss		
		mg/L LC50 semi-static 0.18-		
		0.22: 96 h Oncorhynchus		
		mykiss mg/L LC50 static		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined

Mobility Not determined

Other Adverse Effects

Not determined

Waste 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.

NOTE

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. When shipped in containers of 32 oz. or less this material may be reclassified in accordance with DOT regulation 49CFR173.154 as: Limited Quantity.



DOT

Regulatory	UN number	Proper shipping name	Classes	PG*
Information				
DOT Classification	UN1791	Hypochlorite solutions	8	II
IMDG Class	UN1791	Hypochlorite solutions	8	II
IATA-DGR Class	UN1791	Hypochlorite solutions	8	II

Marine Pollutant This material may meet the definition of a marine pollutant ***PG: Packing group**

15. Regulatory information

International Inventories

No

Not determined	
Legend	
TSCA-	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL-	Canadian Domestic Substances List/Non-domestic Substances List
EINECS/ELINCS-	European Inventory of Existing Chemical Substances/European List of Notified Chemical
	Substances
ENCS-	Japan Existing and New Chemical Substances
IECSC-	China Inventory of Existing Chemical Substances
KECL-	Korean Existing and Evaluated Chemical Substances
PICCS-	Philippines Inventory of Chemicals and Chemical Substances.

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 hypochlorite	100 lb.		RQ 100 lb. final RQ
7681-52-9			RQ 45.4 kg final RQ

SARA 313

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	CWA – Toxic	CWA – Priority	CWA – Hazardous
	Quantities	Pollutants	Pollutants	Substances
Sodium hypochlorite 7681-52-9 (<7)	100 lb			X

US State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium hypochlorite 7681-52-9	Х	X	X

16. Other information

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	0	0	В

Indicates information that has changed from previously issued version. <u>Disclaimer</u>

The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and in 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 I n ay process, unless specified in the text.

End of Safety Data Sheet