Material Safety Data Sheet: DAYBREAK

Supercedes Date 07/17/2008 **Issuing Date** 06/10/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name DAYBREAK
Recommended use Cleaning agent
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 0511
Chemical nature Aqueous solution
Emergency Telephone Number
CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
DANGER!
Corrosive
Causes skin and eye burns
Harmful if inhaled and may cause delayed lung injury
Harmful or fatal if swallowed

Color Colorless - Light yellow **Physical State** Liquid **Odor** Slight chlorine

Potential Health Effects

Principle Route of Exposure	Skin contact, Eye contact.
Primary Routes of Entry	None known
Acute Effects	
Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes skin burns.
Inhalation	Harmful by inhalation. Causes burns.
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
Chronic Toxicity	Inhaled corrosive substances can lead to a toxic edema of the lungs.
Target Organ Effects	None known.
Aggravated Medical Conditions	Skin disorders, Respiratory disorders.
Potential Environmental Effects	See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Sodium hypochlorite	7681-52-9
Benzene, 1,1'-oxybis-, tetrapropylene derivitives, sulfonated, sodium salts	119345-04-9

4. FIRST AID MEASURES

General Advice	Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to physician	The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point > 201 °F / > 94 °C **Method** Seta closed cup
Autoignition Temperature No information available.
Flammability Limits in Air % Hydrogen, by reaction with metals. **Upper** 75 **Lower** 4
Suitable Extinguishing Media
Water spray. Carbon dioxide (CO2). Foam. Alcohol-resistant foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media
None known.
Specific hazards arising from the chemical
Contact with metals may evolve flammable hydrogen gas. Oxidizing potential. Material can create slippery conditions.
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.
NFPA **Health** 3 **Flammability** 0 **Instability** 1 **Other** OX
HMIS **Health** 3 **Flammability** 0 **Instability** 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear protective gloves/clothing. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so.
Environmental Precautions Do not flush into surface water or sanitary sewer system.
Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up Pick up and transfer to properly labeled containers.
Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist.
Storage Store in original container. Keep container tightly closed in a dry and well-ventilated place. Keep containers in cool areas out of direct sunlight and away from combustibles. Metal containers must be lined. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.
Storage Temperature **Minimum** 35 °F / 2 °C **Maximum** 85 °F / 29 °C
Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Sodium hypochlorite	No data available	No data available	No data available
Benzene, 1,1'-oxybis-, tetrapropylene derivitives, sulfonated, sodium salts	No data available	No data available	No data available

Engineering Measures Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment
Eye/Face Protection Tightly fitting safety goggles. Face-shield.
Skin Protection Wear suitable protective clothing, Impervious gloves.
Respiratory Protection In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Non viscous
Color	Colorless - Light yellow	**Odor**	Slight chlorine
Appearance	Transparent	**pH**	13
Specific Gravity	1.09	**Evaporation Rate**	0.1 (Butyl acetate=1)
Percent Volatile (Volume)	95	**VOC Content (%)**	0
VOC Content (g/L)	0	**Vapor Pressure**	17 mmHg @ 68°F
Vapor Density	0.6 (Air = 1.0)	**Solubility**	Completely soluble
Boiling Point/Range	>212 °F / 110 °C		

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.
Conditions to Avoid Heat, flames, and sparks
Incompatible Products Acids, Ammonia, Ammonium salts, Strong oxidizing agents, Reducing agents, Oxygen, Organic materials, Combustible material, Contact with metals liberates hydrogen gas.
Hazardous Decomposition Products Carbon oxides, Sulfur oxides, Chlorine gas, Hydrogen, by reaction with metals.
Possibility of Hazardous Reactions Oxidizing potential

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

Component Information
Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Sodium hypochlorite	8200 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	no data available	no data available	no data available
Benzene, 1,1'-oxybis-, tetrapropylene derivitives, sulfonated, sodium salts	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium hypochlorite	no data available	no data available	no data available	no data available	no data available

Benzene, 1,1'-oxybis-, tetrapropylene derivitives, sulfonated, sodium salts	no data available	no data available	no data available	no data available	no data available

Carcinogenicity There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium hypochlorite	not applicable	not applicable	not applicable	not applicable	not applicable
Benzene, 1,1'-oxybis-, tetrapropylene derivitives, sulfonated, sodium salts	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Sodium hypochlorite	EC50 0.095 mg/L Skeletonema costatum 24 h	LC50 0.03 - 0.19 mg/L Oncorhynchus mykiss 96 h LC50 0.05 - 0.771 mg/L Oncorhynchus mykiss 96 h LC50 0.06 - 0.11 mg/L Pimephales promelas 96 h LC50 0.18 - 0.22 mg/L Oncorhynchus mykiss 96 h LC50 0.28 - 1 mg/L Lepomis macrochirus 96 h LC50 0.4 - 0.8 mg/L Lepomis macrochirus 96 h LC50 4.5 - 7.6 mg/L Pimephales promelas 96 h	no data available	EC50 0.033 - 0.044 mg/L 48 h EC50 2.1 mg/L 96 h	N/A
Benzene, 1,1'-oxybis-, tetrapropylene derivitives, sulfonated, sodium salts	no data available	no data available	no data available	no data available	N/A

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Sodium hypochlorite, solution
Reportable Quantity (RQ) Sodium hypochlorite, RQ kg = 864.7619
Description Sodium hypochlorite, solution

TDG

Proper shipping name Hypochlorite solution
Hazard Class 8
UN-No UN1791
Packing Group III
Description HYPOCHLORITE SOLUTION,8,UN1791,PG III

ICAO

UN-No UN1791
Proper Shipping Name Hypochlorite solution
Hazard Class 8
Packing Group III
Shipping Description Hypochlorite solution,8,UN1791,PG III

IATA

UN-No UN1791
Proper Shipping Name Hypochlorite solution
Hazard Class 8
Packing Group III
ERG Code 8L
Shipping Description UN1791,Hypochlorite solution,8,PG III

IMDG/IMO

Proper Shipping Name Hypochlorite solution
Hazard Class 8
UN-No UN1791

Packing Group	III
EmS No.	F-A, S-B
Shipping Description	UN1791, Hypochlorite solution,8,PG III

15. REGULATORY INFORMATION

Inventories

TSCA	Complies
DSL	Complies

U.S. Federal Regulations

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 and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	No	No	No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hypochlorite	100 lb	Not applicable
Benzene, 1,1'-oxybis-, tetrapropylene derivitives, sulfonated, sodium salts	Not applicable	Not applicable

Canada

This product may not be commercially placed on the market in Canada.

WHMIS Hazard Class

Not applicable

16. OTHER INFORMATION

Prepared By	Dan Hollas
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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