

Material Safety Data Sheet*
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements

U. S. Department of Labor
Occupational Safety & Health
Administration
(Non-Mandatory Form)
OSHA no. 1218-0072

Identity (as used on Label & List)

Note: Blank spaces are not permitted.
If any item is not applicable,
or no information is applicable
the space must be marked to
indicate that.

PW HEAVY DUTY DEGREASER

Section I

Manufacturer's Name
Duraclean International, Inc.

Emergency Telephone Number:
847-704-7100

Address (Number, Street)
220 Campus Drive

Telephone Number for Information:
847-704-7100

Address (city, state & zip)
Arlington Heights, IL 60004

Date Prepared: October 27, 1992

Manufacturer's Name:
C&H Chemical Inc. (18002285635DGR)
Minneapolis, MN 55434

Signature of Preparer:
Henry Hakewill, Jr.
*Based upon information provided by
manufacturer.

Section II - Hazardous Ingredients / Identity Information

Hazard Components (Specific Chemical Identity)	(Specific Common Names(s))	Chemical OSHA PEL	Identity: ACGIH TLV
Sodium orthosilicate	13472-30-5	2mg/m ³	2mg/m ³
2-Butoxy ethanol	111-76-2	---	25ppm TWA
		% Opt. 2.5	

Section III - Physical / Chemical Characteristics

Boiling Point (°F)	212	Specific Gravity (H ₂ O=1)	>1
Vapor Pressure (mmHg)	same as water	Melting Point	N/A
Vapor Density (AIR=1)	N/A	Evaporation Rate (Butyl Acetate = 1)	same as water
Solubility in Water Complete		pH: 12.8 (approx.)	

Appearance and Odor
Clear colorless liquid, mild characteristic odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
None		N/A	N/A
Extinguishing Media			
No restrictions			

Section IV - Fire and Explosion Hazard Data cont.**Special Fire fighting Procedures**

Firefighters should wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

None. Product is a non-combustible liquid.

Section V - Reactivity Data

Stability	Unstable	-		Conditions to Avoid
	Stable	-	X	None

Incompatibility (Materials to Avoid)

None known.

Hazardous Decomposition or Byproducts

Oxides of carbon and nitrogen.

Hazardous	May Occur	-		Conditions to Avoid
Polymerization	Will not occur	-	X	None

Section VI - Health Hazard Data

Route(s) of Entry: Eyes? Yes Inhalation? Yes Skin? Yes Ingestion? Yes

Health Hazards (Acute and Chronic)

Contact with eyes will cause burns. Contact with skin may cause irritation or burns. Ingestion can cause nausea, vomiting, narcosis & gastric discomfort & may cause burns to mouth & esophagus. Ingestion of large quantities may cause delayed kidney damage.

Carcinogenicity:	NPT?	IARC Monographs?	OSHA Regulated?
		No	

Signs & Symptoms of Exposure

Burning and/or redness of eyes. Burning or itching of skin. Burning of mouth tissue and gastric discomfort.

Medical Conditions Generally Aggravated by Exposure

Dermatitis, breathing difficulties

Emergency and First Aid Procedures

Eyes - immediately flush eyes with water for 15 minutes while holding eyelids open with fingers to insure complete rinsing. Get medical attention if irritation continues.

Skin - rinse affected skin with water and get medical attention if irritation persists.

Ingestion - DO NOT INDUCE VOMITING. Immediately drink 1-2 glasses of milk or water to dilute. Contact a physician or poison control center immediately.

Inhalation - remove to fresh air promptly. Get medical attention if breathing is labored.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

For small amounts: flush to sewer with water. For large amounts: soak up with inert absorbent and shovel into sealed drums.

Waste Disposal Method

Dispose of sealed drums in accordance with all applicable local, state & federal regulations for alkaline liquids. Product contains biodegradable surfactants; so is normally sewer disposable.

Precautions to be Taken in Handling and Storing

This alkaline detergent is safe in normal use, and incidental skin contact normally causes no harm. Store at room temperature. Freezing may result in rupture of product container.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Normally not required. Use NIOSH approved respirator as required for concentrated mists or sprays.

Ventilation

Local Exhaust:	natural draft	Special:	
	is normally adequate.		N/A
Mechanical (General)	Use for high	Other:	N/A
	concentration mists or		
	when working in a con-		
	finned area.		

Protective Gloves:

Use of rubber or neoprene gauntlet type gloves is recommended.

Eye Protection:

Use of safety goggles or face shield is recommended.

Other Protective Clothing or Equipment

Eye wash stations & safety showers should be readily accessible. Rubber protective clothing (boots, aprons, etc.) should be worn as required to prevent prolonged or repeated contact with the product.

Work/Hygienic Practices

After handling & using product, wash hands thoroughly before eating, smoking or using restroom facilities. **KEEP OUT OF REACH OF CHILDREN.**

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All terms and abbreviations have been defined in various government publications, or are standard chemical terms used by IUPAC.

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