MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Name	Phone Number			CHEMTREC
Nu-Calgon Wholesaler, Inc.	(314) 469-7000 / (800) 554-5499			(800) 424-9300
Street Address	**City**	**State**	**Postal Code**	**Last Update**
2008 Altom Court	St. Louis	MO	63146-4151	1/25/07
Product Name	**Product Number**	**Product Use**		**EPA Registration #**
Nu-Brite	4291	Coil Cleaner/Degreaser		N/A

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	% By Wt.	CAS Number	TLV	PEL
Sodium Hydroxide (Caustic Soda)	20-30%	1310-73-2	2mg/M3 (TWA/STEL)	2 mg/M3
Nonionic Surfactant	1-10%	Proprietary	None Established	None Established

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview: CORROSIVE LIQUID. Contains Sodium Hydroxide. Do not get in eyes, on skin or clothing. Avoid breathing spray or mist. Use only with adequate personal protection equipment.

Potential Health Effects

Eyes: Prolonged contact with eyes will cause severe irritation, possibly burns and permanent damage.

Skin: Contact with skin can cause severe irritation with pain, possibly produce severe chemical burns and destroy tissues; irritation may be delayed.

Ingestion: Harmful or fatal if swallowed - causes severe burns of the mouth, throat and stomach if ingested.

Inhalation: Inhalation of generated mists or spray may cause respiratory irritation or chemical burns of mouth, throat, and stomach.

Chronic Exposure: Chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis.

Carcinogenicity: None

Medical Conditions Aggravated be Exposure: An existing dermatitis and respiratory illnesses.

SECTION 4 – FIRST AID MEASURES

Eyes: Flush eyes with water for at least 30 minutes and call a physician immediately. Speed of action is essential.

Skin: Remove contaminated clothing. Wash with large amounts of soap and water. If skin still feels slippery or if irritation persists, continue washing. Consult a physician in the case of any prolonged irritation..

Ingestion: Do not induce vomiting. Immediately give large quantities of water or (preferably) milk and call a physician. Speed of action is essential.

Inhalation: Remove to fresh air. Start artificial respiration if necessary. Oxygen may be administered. Call a physician.

SECTION 5 – FIREFIGHTING MEASURES

Flash Point: None to Boiling °F

Autoignition Temp: N/A°C/N/A°F

Hazardous Products of Combustion: Burning may produce oxides of carbon and other substances.

Flammable Limits in Air: N/A

Extinguishing Media: This product is not combustible. Water spray, foam, CO_2, or dry chemicals may be used in areas where this product is stored.

Fire and Explosion Hazards: None

Special Firefighting Procedures: Do not enter confined fire spaces without protective clothing and a self-contained air supply.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak: CORROSIVE LIQUID. Before attempting clean up, refer to personal protection information. Do not touch or walk through spilled material. Stop leak if you can without risk. Dike ahead of large spills to prevent run-off. Mop, pump or take up with sand or other inert absorbent and reclaim into containers for reuse, recycle or proper disposal.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment: CORROSIVE MATERIAL. Avoid contact with corrosion sensitive metals, leather and wood. Do not get in eyes, on skin or clothing. Sprays and generated mists can be dangerous. Use only according to dilution instructions and with adequate protective clothing.

Storage Requirements: CORROSIVE MATERIAL. Keep container closed when not in use. DOT Class: Corrosive liquid, basic, inorganic, n.o.s. (contains sodium hydroxide), 8, UN3266, PG-II. KEEP OUT OF REACH OF CHILDREN. Store away from acids and oxidizing materials.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Specific use conditions (spraying/confined spaces) where regulatory limits for NaOH are exceeded may require local exhaust ventilation to prevent release of mist &/or vapors into work environment. If ventilation in not adequate, use NIOSH/MSHA approved respirator with alkaline mist/gas cartridge & full face piece.

Eye Protection: Close fitting safety glasses/goggles/ face shield depending upon conditions of use.

Protective Clothing: Impervious protective clothing appropriate to minimize contact (ie: rubber boots, apron, faceshield) especially where sprayback/misting conditions exist. Rubber protective gloves.

Exposure Guidelines: NaOH TLV = 2mg/M3. Eye wash station and safety shower in handling area.

Specific Engineering Controls (such as ventilation, enclosed process): Insure adequate ventilation to control NaOH airborne concentration below TLV of 2Mg/M3. Eye wash station and safety shower in handling area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid	**Freezing Point:** ~0°C/~32~0°F	**% Volatile by Weight:** ~76%
Color: Blue	**Vapor Density [air =1]:** Not Determined	**Evaporation Rate:** (vs. H2O): About the same.
Odor: No distinct odor	**Vapor Pressure:** Not Determined	**Specific Gravity:** (H2O=1.0): 1.252 (+/- 0.005)
Boiling Point: 100°C/212°F	**Solubility in Water:** Complete	**pH (concentrate):** 10% pH=13.3 (+/- 0.5)

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: None

Incompatibilities: Strong acids/oxidizers. Do not mix with chlorinated detergents (bleach).

Reactive Conditions to avoid: Do not mix with chlorinated detergents (bleach) or any other chemicals.

Decomposition Products: Burning may produce oxides of carbon and other substances.

SECTION 11 – TOXICOLOGICAL INFORMATION

Hazardous Ingredients	CAS #	EINECS #	LD 50 of Ingredient (Specify Species)	LC50 of Ingredient (Specify Species)
Sodium Hydroxide	1310-73-2	No Data.	1350 mg/kg (Oral ; Rat)	358 mg/L (Fathead Minnow)
Nonionic Surfactant	Proprietary	No Data.	>5.0 g / kg (Oral ; Rat)	Not Determined

SECTION 12 – ECOLOGICAL INFORMATION

Hazardous Ingredients	Aquatic Toxicity Data
Sodium Hydroxide	LC50 (96 hr.) (fathead minnow) : 358 mg/L
Nonionic Surfactant	Not Determined

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in an approved waste facility according to Federal, State and local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Special Shipping Information: No Data.

Purview	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT (Land)	Corrosive liquid, basic, inorganic, n.o.s. (contains sodium hydroxide)	UN3266	II	8
IMO (Water)	No Data.	No Data.	No Data.	No Data.
ICAO (Air)	No Data.	No Data.	No Data.	No Data.

SECTION 15 – REGULATIORY INFORMATION

WHMIS Classification: (Workplace Hazardous Material Information System)	Class E - Corrosive Material
SARA Title III: (Superfund Amendments & Reauthorization Act)	Contains no Section 313 listed substances subject to reporting requirements.
OSHA: (Occupational Safety & Health Administration)	OHSA Hazardous - Corrosive Liquid. Acute & Chronic Hazard.
TSCA: (Toxic Substance Control Act)	All ingredients are TSCA registered.
VOC: (volatile Organic Compounds)	Less than 1%
CPR: (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.
EINECS: (European Inventory of Existing Commercial Chemical Substances)	No Data.
DSL / NDSL: (Canadian Domestic Substance List)(Non-Domestic Substance List)	Not all ingredients within this product are on the DSL and/or NDSL.
CERCLA: (Comprehensive Response Compensation & Liability Act)	RQ = >5,000 lbs (NaOH)
IDL: (Canadian Ingredient Disclosure List)	Sodium hydroxide is listed on the IDL.
NFPA (HMIS) Rating: (Hazardous Materials Identification System)	Health = 3 Flammability = 0 Reactivity = 1

SECTION 16 – OTHER INFORMATION

No Data.