SAFETY DATA SHEET



	1. Product and Company	Identification
Product identifier	Alka-Brite 4x (4120-90)	
Other means of identification	Not available	
Recommended use	Coil Cleaner	
Recommended restrictions	None known.	
Manufacturer information	Nu-Calgon 2611 Schuetz Road St. Louis, MO 63043 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (C	HEMTREC)
Supplier	See above.	
	2. Hazards Identifi	cation
Physical hazards	Corrosive to metals	Category 1
Health hazards	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards Label elements	Not classified	
	E BE	
Signal word	Danger	
Hazard statement	May be corrosive to metals. Causes se	evere skin burns and eye damage.
Precautionary statement		
Prevention		t breathe mist or vapor. Wash thoroughly after handling. ning, eye protection and face protection.
Response	Absorb spillage to prevent material-damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
Storage	Store locked up. Store in a corrosion re	esistant container with a resistant inner liner.
Disposal	Dispose of container in accordance wit	h local, regional, national and international regulations.
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known	
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	
	3. Composition/Information	on Ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	%
Alkyl polyglycoside		110615-47-9	1-5*
Glucopyranose, oligomeric, decyl octyl glycosides		68515-73-1	1-5*
Sodium hydroxide		1310-73-2	15-40*

Composition comments

US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. *CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

	4. First Aid Measures
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Specific treatment (see information on this label). Wash contaminated clothing before reuse.
Eye contact	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.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER o doctor.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.
	5. Fire Fighting Measures
Suitable extinguishing media	Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Firefighters should wear a self-contained breathing apparatus.
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self-contained breathing apparatus.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
	6. Accidental Release Measures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Prevent entry into waterways, sewer, basements or confined areas.
	Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes,

recautions for safe handling conditions for safe storage, including any incompatibilities ccupational exposure limits Canada. Alberta OELs (Occup Components Sodium hydroxide (CAS 1310-73-2)	clothing. Avoid prolonged exposure. V thoroughly after handling. Use good in container tightly closed. When using o Store locked up. Store in a cool, dry p container with a resistant inner liner. S	lace out of direct sunlight. Store in a corrosion resistant Store in a closed container away from incompatible materials Is (see Section 10 of the SDS). Keep out of reach of sonal Protection
Accupational exposure limits Canada. Alberta OELs (Occup Components Sodium hydroxide (CAS	container with a resistant inner liner. S Store away from incompatible materia children. 8. Exposure Controls/Pers pational Health & Safety Code, Sche	Store in a closed container away from incompatible materials Is (see Section 10 of the SDS). Keep out of reach of sonal Protection
Canada. Alberta OELs (Occup Components Sodium hydroxide (CAS	oational Health & Safety Code, Sche	
Canada. Alberta OELs (Occup Components Sodium hydroxide (CAS		
Components Sodium hydroxide (CAS		
Sodium hydroxide (CAS	Туре	
1010-70-2)	Ceiling	Value 2 mg/m3
Canada. British Columbia OE Safety Regulation 296/97, as a	· · ·	or Chemical Substances, Occupational Health and
Components	Туре	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
Canada. Manitoba OELs (Reg Components	J. 217/2006, The Workplace Safety A Type	nd Health Act) Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
Canada. Ontario OELs. (Cont Components	rol of Exposure to Biological or Che Type	mical Agents) Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
Canada. Quebec OELs. (Minis Components	stry of Labor - Regulation Respectin Type	g the Quality of the Work Environment) Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
Canada. Saskatchewan OELs Components	। (Occupational Health and Safety Ro Type	egulations, 1996, Table 21) Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
US. OSHA Table Z-1 Limits fo	or Air Contaminants (29 CFR 1910.10	00)
Components	Туре	Value
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3
US. ACGIH Threshold Limit V Components	alues Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
US. NIOSH: Pocket Guide to C Components	Chemical Hazards Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
iological limit values	No biological exposure limits noted fo	r the ingredient(s).
xposure guidelines		
ppropriate engineering ontrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.	
ndividual protection measures, s Eye/face protection	uch as personal protective equipme Wear safety glasses with side shields	

eneral hygiene onsiderations	When using do not eat or drink.
Thermal hazards	Not applicable.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
Other	Wear appropriate chemical resistant clothing. As required by employer code.
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin protection	

9. Physical and Chemical Properties

	9. Physical and Chemical Properties
Appearance	Liquid
Physical state	Liquid.
Form	Liquid
Color	Brown
Odor	Bland.
Odor threshold	Not available.
pH	12.7 (1% in water) 14 (Concentrate)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	Not available.
Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and Reactivity

Reactivity	May be corrosive to metals. Reacts violently with acids. This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Acids. Strong oxidizing agents. Metals.

11. Toxicological Information

	11. Toxicological Informatio	n				
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.					
Information on likely rout	es of exposure					
Ingestion	Causes digestive tract burns. May cause stomac	Causes digestive tract burns. May cause stomach distress, nausea or vomiting.				
Inhalation	May cause irritation to the respiratory system. Pr	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.				
Skin contact	Causes severe skin burns.	Causes severe skin burns.				
Eye contact	Causes serious eye damage.	Causes serious eye damage.				
Symptoms related to the physical, chemical and toxicological characterist	include stinging, tearing, redness, swelling, and b	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.				
Information on toxicologi						
Acute toxicity						
Components	Species	Test Results				
Alkyl polyglycoside (CAS 1	10615-47-9)					
Acute						
Dermal						
LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA				
Inhalation						
LC50	Not available					
Oral						
LD50	Rat	> 5000 mg/kg, ECHA				
		> 2000 mg/kg, ECHA				
Glucopyranose, oligomeric, Acute <i>Dermal</i> LD50	, decyl octyl glycosides (CAS 68515-73-1) Rabbit	> 2000 mg/kg, 24 Hours, ECHA				
Inhalation LC50	Not available					
Oral						
LD50	Rat	> 5000 mg/kg, ECHA				
		> 2000 mg/kg, BASF				
Sodium hydroxide (CAS 13 Acute <i>Dermal</i> LD50	10-73-2) Not available					
Inhalation LC50	Not available					
<i>Oral</i> LD50	Rabbit	325 mg/kg, ECHA				
Skin corrosion/irritation	Causes severe skin burns and eye damage.					
Exposure minutes	Not available.					
Erythema value	Not available.					
Oedema value	Not available.					
Serious eye damage/eye	Causes serious eye damage.					
Corneal opacity value	e Not available.					
Iris lesion value	Not available.					
Ins lesion value						
Conjunctival reddenii value						
Conjunctival reddening	ng Not available.					

Canada - Alberta OELs: Irri				
Sodium hydroxide (CAS	,	Irritant		
Respiratory sensitization	Not a respiratory sensitizer.			
Skin sensitization	This product is not expected to cause skin sensitization.			
Mutagenicity		ardous by WHMIS/OSHA criter		
Carcinogenicity	Non-hazardous by WHMIS/OSHA criteria.			
US. OSHA Specifically Reg Not listed.	ulated Subs	stances (29 CFR 1910.1001-1	050)	
Reproductive toxicity	This prod	uct is not expected to cause re	productive or	developmental effects.
Teratogenicity	Non-haza	rdous by WHMIS/OSHA criter	ia.	
Specific target organ toxicity - single exposure	Not classi	fied.		
Specific target organ toxicity - repeated exposure	Not classi	fied.		
Aspiration hazard	Not an as	piration hazard.		
Chronic effects	Prolonged	d inhalation may be harmful.		
		12. Ecological Infor	mation	
Ecotoxicity	Compone below	nts of this product have been	identified as h	naving potential environmental concerns. See
Ecotoxicological data		. .		
Components		Species		Test Results
Sodium hydroxide (CAS 1310-73-	2)			
Aquatic				
Crustacea	EC50	Water flea (Ceriodaphni	a dubia)	34.59 - 47.13 mg/L, 48 hours
Fish	LC50	Western mosquitofish (C	Gambusia affi	nis) 125 mg/L, 96 hours
Persistence and degradability	No data is	s available on the degradability	/ of this produ	ict.
Bioaccumulative potential	No data a	vailable.		
Mobility in soil	No data a	vailable.		
Mobility in general	Not availa	able.		
Other adverse effects				lepletion, photochemical ozone creation tial) are expected from this component.
		13. Disposal Conside	erations	
Disposal instructions				t licensed waste disposal site. Dispose of national/international regulations.
Local disposal regulations	Dispose ir	n accordance with all applicab	le regulations	
Hazardous waste code		9		or corrosive to steel] tween the user, the producer and the waste
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).			
Contaminated packaging				, follow label warnings even after container is proved waste handling site for recycling or
		14. Transport Infor	nation	
Transport of Dangerous Goods	Classifica	•		ons 2.1 – 2.8 of the Transportation of
(TDG) Proof of Classification	Dangerou			hnical name and the classification of the
U.S. Department of Transportat	ion (DOT)			
Basic shipping requiremen				
UN number	UN3266			
Proper shipping name Technical name	Corrosive Sodium h	liquid, basic, inorganic, n.o.s.		
Hazard class	8 8	YUIUNIUG		
Packing group	Ű			

Special provisions	386, B2, IB2, T11, TP2, TP27
Packaging non bulk	202
Packaging bulk	242
Transportation of Dangerous	Goods (TDG - Canada)
Basic shipping requireme	nts:
UN number	UN3266
Proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Technical name	SODIUM HYDROXIDE
Hazard class	8
Packing group	II
Special provisions	16
IATA/ICAO (Air)	
Basic shipping requireme	nts:
UN number	UN3266
Proper shipping name	Corrosive liquid, basic, inorganic, n.o.s.
Technical name	Sodium hydroxide
Hazard class	8
Packing group	II
IMDG (Marine Transport)	
Basic shipping requireme	nts:
UN number	UN3266
Proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Technical name	Sodium hydroxide
Hazard class	8
Packing group	II

DOT





15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR. Export Control List (CEPA 1999, Schedule 3)

 Not listed.

 Greenhouse Gases

 Not listed.

 Precursor Control Regulations

 Not regulated.

 WHMIS 2015 Exemptions

 Vot applicable

 US federal regulations

 This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

All chemicals used are on the TSCA inventory.

CERCLA Hazardous Substa	· · · ·		
	1310-73-2) ulated Substances (29 CFR 19	Listed. 10.1001-1050)	
Not listed.			
Superfund Amendments and Re		RA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely hazardous substance	No		
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
	n 112 Hazardous Air Pollutants	s (HAPs) List	
Not regulated. Clean Air Act (CAA) Sectior	n 112(r) Accidental Release Pro	evention (40 CFR 68.130)	
Not regulated.			
US state regulations			
US - California Hazardous S	Substances (Director's): Listed	substance	
Sodium hydroxide (CAS	1310-73-2)	Listed.	
US - Illinois Chemical Safet	y Act: Listed substance		
Sodium hydroxide (CAS			
US - Louisiana Spill Reporti	ing: Listed substance		
Sodium hydroxide (CAS US - Minnesota Haz Subs: L		Listed.	
Sodium hydroxide (CAS US - New Jersey RTK - Sub		Listed.	
Sodium hydroxide (CAS			
Glucopyranose, oligome	ng Levels: Listed substance ric, decyl octyl glycosides (CAS	Listed.	
68515-73-1) Sodium hydroxide (CAS US. Massachusetts RTK - S		Listed.	
Sodium hydroxide (CAS			
	d Community Right-to-Know A	ct	
Not regulated. US. Pennsylvania Worker a	nd Community Right-to-Know	Law	
Sodium hydroxide (CAS US. Rhode Island RTK	1310-73-2)		
Sodium hydroxide (CAS	1310-73-2)		
US. California Proposition 6	65		
		California Proposition 65 regulation.	
Inventory status	-	-	
Country(s) or region	Inventory name		On inventory (yes/no)*
Canada	Domestic Substances List (DS	SL)	Yes
Canada	Non-Domestic Substances Lis		No

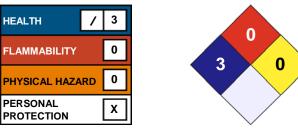
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Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Disclaimer



Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. The information in the sheet was written based on the best knowledge and experience currently available.

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Prepared by	Nu-Calgon Technical Service Phone: (314) 469-7000	
Other information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.	

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