



# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCTION IDENTIFICATION AND USE

<b>MATERIAL IDENTIFIER:</b> <b>LUBE CLEAN</b>		<b>PRODUCT USE:</b> <b>DEGREASER / CLEANER</b>	<b>WHMIS CLASSIFICATION</b> <b>D2B, E</b>
<b>MANUFACTURER'S NAME:</b> <b>ALTACHEM Ltd.</b>		<b>SUPPLIER'S NAME:</b>	
<b>STREET ADDRESS</b> <b>5507-76<sup>th</sup> Avenue</b>		<b>STREET ADDRESS</b>	
<b>CITY</b> <b>EDMONTON</b>	<b>PROVINCE</b> <b>ALBERTA</b>	<b>CITY</b>	<b>PROVINCE</b>
<b>POSTAL CODE</b> <b>T6B 0A7</b>	<b>EMERGENCY TELEPHONE #</b> <b>1-866-414-1445</b>	<b>POSTAL CODE</b>	<b>TDG CLASSIFICATION</b> <b>CLASS 8(9.2) UN1823 PGII</b>

## SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS	%	CAS / UN #	LD(50) OF MATERIAL SPECIFY SPECIES AND	LC(50) OF MATERIAL SPECIFY SPECIES
Sodium metasilicate pentahydrate	1 - 5	6834 - 92 - 0	847mg/kg Rat, Oral	
Glycol Ether PNP	3 - 7	1569 - 01 - 3	470mg/kg Rat, Oral	
Nonyl phenol ethoxylate	1 - 5	9016 - 45 - 9	2500mg/kg Rat, Oral	
Sodium Hydroxide 50 % sol.	7 - 13	1310 - 73 - 20	N/A	

## SECTION 3 - PHYSICAL DATA

<b>PHYSICAL STATE</b> GAS [ ] LIQUID [X] SOLID [ ]	<b>ODOUR AND APPEARANCE</b> <b>Lemon / Lime scent, Green liquid</b>	<b>ODOUR THRESHOLD</b> <b>N/A</b>	<b>SPECIFIC GRAVITY</b> <b>1.06 +- 0.02</b>
<b>VAPOUR PRESSURE ( mm Hg )</b> <b>N/A</b>	<b>VAPOUR DENSITY ( AIR = 1 )</b> <b>N/A</b>	<b>BOILING POINT ( Deg. C )</b> <b>100</b>	<b>FREEZING POINT ( Deg. C )</b> <b>- 7</b>
<b>% VOLATILE ( BY VOLUME )</b> <b>N/A</b>	<b>SOLUBILITY IN WATER ( 20 Deg. C )</b> <b>100 %</b>	<b>pH</b> <b>12.8 +- 0.5</b>	<b>COEFF. WATER / OIL DISTRIBUTION</b> <b>N/A</b>

## SECTION 4 - FIRE AND EXPLOSION DATA

<b>FLAMMABILITY YES [ ] NO [X] IF YES, UNDER WHICH CONDITIONS ?</b> <p style="text-align: center;"><b>This product will not burn or support combustion.</b></p>			
<b>MEANS OF EXTINCTION</b> <p style="text-align: center;"><b>Use an extinguisher appropriate for the surrounding fire.</b></p>			
<b>SPECIAL PROCEDURES</b> <p style="text-align: center;"><b>Not Applicable for this product. However, it is recommended that a NIOSH approved self-contained breathing apparatus be used when either in confined areas or exposed to combustion products.</b></p>			
<b>FLASH POINT ( Deg. C ) AND METHOD</b> <b>N/A</b>	<b>UPPER EXPLOSION LIMIT ( % BY VOLUME )</b> <b>N/A</b>		<b>LOWER EXPLOSION LIMIT ( % BY VOLUME )</b> <b>N/A</b>
<b>AUTO IGNITION TEMPERATURE ( Deg. C )</b> <b>N/A</b>	<b>TDG FLAMMABILITY CLASSIFICATION</b> <b>N/A</b>		<b>HAZARDOUS COMBUSTION PRODUCTS</b> <b>May produce carbon oxides</b>
<b>EXPLOSION SENSITIVITY TO IMPACT DATA:</b> <b>N/A</b>	<b>RATE OF BURNING</b> <b>N/A</b>	<b>EXPLOSIVE POWER</b> <b>N/A</b>	<b>SENSITIVITY TO STATIC DISCHARGE</b> <b>N/A</b>

## SECTION 5 - REACTIVITY DATA

<b>CHEMICAL STABILITY YES [X] NO [ ] IF NO, UNDER WHICH CONDITIONS ?</b> <p style="text-align: center;"><b>Stable under normal conditions.</b></p>	
<b>INCOMPATIBILITY WITH OTHER SUBSTANCES YES [X] NO [ ] IF SO, WHICH ONES ?</b> <p style="text-align: center;"><b>Incompatible with acids and strong oxidizing materials.</b></p>	
<b>REACTIVITY AND UNDER WHAT CONDITIONS</b> <p style="text-align: center;"><b>Generally stable</b></p>	
<b>HAZARDOUS DECOMPOSITION</b> <p style="text-align: center;"><b>May thermally decompose to produce carbon monoxide, carbon dioxide and oxides of sodium.</b></p>	

### SECTION 6 - TOXICOLOGICAL PROPERTIES

**ROUTE OF ENTRY**

SKIN CONTACT [ X ]	SKIN ABSORPTION [ X ]	EYE CONTACT [ X ]	INHALATION ACUTE [ X ]
			INHALATION CHRONIC [ X ]    INGESTION [ X ]

**SKIN CONTACT**

**This product is extremely corrosive. It is capable of causing severe burns with deep ulceration and can penetrate to deeper layers of skin causing permanent scarring and possibly death.**

**EYE CONTACT**

**Can cause severe irritation to eyes, visual impairment or completely blindness may result.**

**INHALATION**

**This product is not expected to present an inhalation hazard unless a mist is generated. Mists can probably cause irritation of the nose, throat and respiratory tract.**

**INGESTION**

**Ingestion of high alkaline solutions can result in corrosive burns of the esophagus, stomach and duodenum. Perforation of the esophagus or stomach. Symptoms included pain, excessive salivation, vomiting and retching.**

### SECTION 7 - PREVENTIVE MEASURES

**PERSONAL PROTECTIVE EQUIPMENT**

**Some protective equipment required for normal use.**

<b>GLOVES ( SPECIFY )</b> Rubber	<b>RESPIRATOR ( SPECIFY )</b> If mist is concentrated use approved NIOSH	<b>EYE ( SPECIFY )</b> Chemical goggles or face shield.
<b>FOOTWEAR ( SPECIFY )</b> Rubber	<b>CLOTHING ( SPECIFY )</b> Rubber apron	<b>OTHER ( SPECIFY )</b> Not Applicable

**ENGINEERING CONTROL (SPECIFY )**

**Use with adequate ventilation.**

**LEAK AND SPILL PROCEDURE**

**For large spills, dike and salvage material. Minor spills can be neutralized with diluted hydrochloric or Sulphuric acid and then flushed with plenty of water.**

**WASTE DISPOSAL**

**Waste should not be discharged into sewer or waterways. Neutralize with diluted acid, then dispose of in accordance with local, provincial and federal regulations.**

**HANDLING PROCEDURES AND EQUIPMENT**

**Do not ingest, avoid skin and eye contact.**

**STORAGE REQUIREMENTS**

**Store in a cool, dry, well-ventilated area. Store in suitable, labeled containers (usually the shipping container). Keep containers tightly closed when not in use and when empty.**

**SPECIAL SHIPPING INFORMATION**

**Sodium Hydroxide Solution: Class 8(9.2), UN1824, PG II:**

### SECTION 8 - FIRST AID MEASURES

**EYE CONTACT**

**Flush eye(s) with water for at least 60 min. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting. Transport to emergency facility.**

**SKIN CONTACT**

**Remove contaminated clothing and flush with water for at least 60 min. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting. Quickly transport to emergency facility.**

**INGESTION**

**Rinse victim's mouth with water. DO NOT INDUCE VOMITING. Have victim drink 300 mls of water to dilute material in stomach. If milk is available, it may be given AFTER the water. Transport victim to**

**INHALATION**

**Remove victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel. Immediately transport victim to an emergency care facility..**

**SOURCES USED**

**Supplier's MSDS, WHMIS Manual, TDG Manual, CCOHS Database.**

**ADDITIONAL INFORMATION**

**Not Applicable.**

### SECTION 9 - PREPARATION OF MSDS

<b>PREPARED BY</b> ALTACHEM LTD.	<b>PHONE NUMBER</b> 1-866-414-1445	<b>DATE</b> 1 <sup>st</sup> January 2016
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