

MSDS Preparation Date (dd/mm/yyyy): 04/01/2008

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product identifier : **GATOR OIL & GREASE CLEANER**

Product Code(s) : 9961833100

Product Use : Concrete cleaner - Degreaser.

Chemical Family : Alkaline mixture.

Supplier's name and address:
Alliance Designer Products Inc.
225 Blvd. Bellerose West
Laval, QC, Canada
H7L 6A1

Manufacturer's name and address:
Refer to Supplier

Information Telephone No. : (450) 624-1611 or 866-212-1611 (Toll Free)

24 Hr. Emergency Tel # : Chemtrec (800) 424-9300 (Within Continental U.S.); Chemtrec (703) 527-3887 (Outside U.S.).

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
			<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Alkyl polyglycol ether	78330-20-8	5.00 - 10.00	N/Av	N/Av	N/Av	N/Av
Sodium silicate	1344-09-8	1.00 - 5.00	N/Av	N/Av	N/Av	N/Av
Sodium hexametaphosphate	68915-31-1	1.00 - 5.00	N/Av	N/Av	N/Av	N/Av
Potassium hydroxide	1310-58-3	1.00 - 5.00	2 mg/m ³ (Ceiling)	N/Av	2 mg/m ³ (Ceiling) (final rule limit)	N/Av

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear green liquid.
DANGER! Corrosive Causes eye, skin and digestive tract burns.
Harmful if swallowed. May be harmful if inhaled. Causes respiratory tract irritation.
Contains material which can cause damage to the blood system, the liver and the kidneys.

POTENTIAL HEALTH EFFECTS

Target organs : Eyes, skin, respiratory system and digestive system.

Routes of exposure : *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES

Signs and symptoms of short-term (acute) exposure

Inhalation : May cause severe irritation to the nose, throat and respiratory tract. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

Skin : Causes skin burns.

Eyes : Causes burns. Symptoms may include severe pain, blurred vision, redness and corrosive damage.

Ingestion : May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include severe abdominal pain, nausea and vomiting. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Effects of long-term (chronic) exposure

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.
Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

Conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Carcinogenic status

: See TOXICOLOGICAL INFORMATION, Section 11.

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Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects : See ECOLOGICAL INFORMATION (Section 12).

SECTION 4 - FIRST AID MEASURES

- Inhalation** : Immediately remove person to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Seek immediate medical attention/advice.
- Skin contact** : Remove contaminated clothing. Flush affected skin with gently flowing lukewarm water for at least 20 minutes. Cover wound with sterile dressing. Do not rub area of contact. Wash contaminated clothing before re-use. Seek immediate medical attention/advice. Leather and shoes that have been contaminated with the solution may need to be destroyed.
- Eye contact** : Immediately flush eyes thoroughly with running water for at least 20 to 30 minutes. Protect unharmed eye. Seek immediate medical attention/advice.
- Ingestion** : Do not induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Seek immediate medical attention/advice. Never give anything by mouth to an unconscious person.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

- : Not flammable under normal conditions of use. However, may ignite if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.1200)

- : Combustible Liquid Class III B.
- Flash point** : > 93.3°C / 199.9°F
- Flash point Method** : closed cup
- Lower flammable limit (% by vol.)** : N/Av
- Upper flammable limit (% by vol.)** : N/Av
- Oxidizing properties** : None.
- Flame Projection Length** : N/Av
- Flashback observed** : N/Av

Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media : Use water fog or fine spray, foams, carbon dioxide or dry chemical. Do not use water jet, as this may spread burning material.

Special fire-fighting procedures/equipment

- : Firefighters should wear proper protective equipment and self contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

Hazardous combustion products

- : Carbon oxides; nitrogen oxides (NOx); metal oxides; other unidentified organic compounds.

NFPA Rating

	0 - Minimal	1 - Slight	2 - Moderate	3 - Serious	4 - Severe
:	Health: 3	Flammability: 1	Instability: 0	Special Hazards:	None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the cleanup must wear appropriate personal protective equipment. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

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- Spill response/cleanup** : Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Dilute alkali with water and neutralize with acetic acid (vinegar). Flush any residue in the spill area with water. Do not flush into surface water or sanitary sewer system. Notify the appropriate authorities as required.
- Prohibited materials** : None known.
- Special spill response procedures** : In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).
US CERCLA Reportable quantity (RQ): Potassium hydroxide (1000 lbs / 454 kg).

SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Use only in well-ventilated areas. Wear suitable protective equipment during handling. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from acids and other incompatibles. Keep away from heat, sparks, and open flames. Keep containers tightly closed when not in use.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.
- Incompatible materials** : Acids; Reducing agents; Oxidizing agents; Metals; Alkalies.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Ventilation and engineering measures** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ensure adequate ventilation, especially in confined areas.
- Respiratory protection** : Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Advice should be sought from respiratory protection specialists.
- Skin protection** : Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.
- Eye / face protection** : Chemical splash goggles must be worn when handling this material. A full face shield may also be necessary.
- Other protective equipment** : Wear a chemically resistant apron and long sleeves when dispensing, to prevent skin contact. An eyewash station and safety shower should be made available in the immediate working area.
- General hygiene considerations** : Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Contaminated work clothing should not be allowed out of the workplace. Keep working clothes separately.
- Permissible exposure levels** : For individual ingredient exposure levels, see Section 2.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|-------------------------------|----------------|--|-----------------------|
| Physical state | : liquid | Appearance | : Clear green liquid. |
| Odour | : N/Av | Odour threshold | : N/Av |
| pH | : 13.5 | | |
| Boiling point | : 90°C (194°F) | Specific gravity | : 1.06 |
| Melting/Freezing point | : N/Av | Coefficient of water/oil distribution | : N/Av |
| | | Solubility in water | : Partially soluble. |

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Vapour pressure (mmHg @ 20° C / 68° F): N/Av

Vapour density (Air = 1) : N/Av

Evaporation rate (n-Butyl acetate = 1)

: N/Av

Volatile organic Compounds (VOC's)

: N/Av

Volatiles (% by weight)

: N/Av

SECTION 10 - REACTIVITY AND STABILITY DATA

Stability and reactivity : Stable under the recommended storage and handling conditions prescribed. Contact with metals may release small amounts of flammable hydrogen gas.

Hazardous polymerization : Hazardous polymerisation does not occur.

Conditions to avoid : Avoid heat and open flame. Avoid contact with incompatible materials.

Materials To Avoid And Incompatibility

: Incompatible materials (see Section 7).

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological data : See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>oral</u>	<u>dermal</u>
Alkyl polyglycol ether	N/Av	2030 mg/kg (rat)	N/Av
Sodium silicate	N/Av	1960 mg/kg (rat)	> 4640 mg/kg (rabbit)
Sodium hexametaphosphate	N/Av	3053 mg/kg (rat)	N/Av
Potassium hydroxide	N/Av	273 mg/kg (rat)	N/Av

Carcinogenic status : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects : Not expected to have other reproductive effects.

Teratogenicity : Not expected to be a teratogen.

Mutagenicity : Not expected to be mutagenic in humans.

Epidemiology : Not available.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Synergistic materials : Not available.

Irritancy : Corrosive.

other important hazards : None known.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental effects : The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Important environmental characteristics

: No information available.

Ecotoxicological : No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal : See Section 7 (Handling and Storage) section for further details.



Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

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RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

SECTION 14 - TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	UN1760	CORROSIVE LIQUID, N.O.S. (Potassium hydroxide)	8	III	
TDG Additional information	May be shipped as a Limited Quantity when transported in containers no larger than 5.0 L, in combination packagings no larger than 30 kg gross mass.				
49CFR/DOT	UN1760	Corrosive liquids, n.o.s. (Potassium hydroxide)	8	III	
49CFR/DOT Additional information	May be shipped as a Limited Quantity when transported in containers no larger than 5.0 L, in combination packagings no larger than 30 kg gross mass.				

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): Potassium hydroxide (1000 lbs / 454 kg).

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

US State Right to Know Laws:

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

Other U.S. State "Right to Know" Lists: The following chemicals are specifically listed by individual States: Potassium hydroxide (CA, MA, MN, NJ, PA, RI).

International Information:

Canadian WHMIS Classification:
Class E (Corrosive Material).

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16 - OTHER INFORMATION

HMIS Rating : * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
Health: *3 Flammability: 1 Reactivity: 0

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- Legend** :
- ACGIH: American Conference of Governmental Industrial Hygienists
 - CA: California
 - CAS: Chemical Abstract Services
 - CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 - CFR: Code of Federal Regulations
 - DOT: Department of Transportation
 - EPA: Environmental Protection Agency
 - EST: Eastern Standard Time
 - HMIS: Hazardous Materials Identification System
 - HSDB: Hazardous Substances Data Bank
 - IARC: International Agency for Research on Cancer
 - Inh: Inhalation
 - MA: Massachusetts
 - MN: Minnesota
 - MSHA: Mine Safety and Health Administration
 - N/Ap: not applicable
 - N/Av: not available
 - NFPA: National Fire Protection Association
 - NIOSH: National Institute of Occupational Safety and Health
 - NTP: National Toxicology Program
 - OSHA: Occupational Safety and Health Administration
 - PA: Pennsylvania
 - PEL: Permissible exposure limit
 - RCRA: Resource Conservation and Recovery Act
 - RI: Rhode Island
 - RTECS: Registry of Toxic Effects of Chemical Substances
 - SARA: Superfund Amendments & Reauthorization Act
 - STEL: Short Term Exposure Limit
 - TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 - TLV: Threshold Limit Values
 - TSCA: Toxic Substance Control Act
 - TWA: Time Weighted Average
 - WHMIS: Workplace Hazardous Materials Identification System

- References** :
1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2007.
 2. International Agency for Research on Cancer Monographs, searched 2008.
 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2008 (Chempendium, HSDB and RTECs).
 4. Material Safety Data Sheet from manufacturer.
 5. California Proposition 65 List - September 28, 2007 version.

Prepared for:

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DISCLAIMER OF LIABILITY

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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