Material Safety Data Sheet
(DG-99C DEGREASER)

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ISO 9001 Registered

HMIS HEALTH:.....2
HMIS FLAMMABILITY: 0
HMIS REACTIVITY:.....0
PERSONAL PROTECTION: C

EMERGENCY NUMBER: 800-255-3924

SECTION 1 – IDENTIFICATION OF CHEMICAL PRODUCT

PRODUCT NAME:..... DG-99C DEGREASER
EFFECTIVE DATE:..... September 17, 2007
CHEMICAL FAMILY:..... Compound Cleaning Liquid
FORMULA:..... Proprietary
CAS NUMBER:..... Blend

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	PEL
Sodium Hydroxide	< 8	1310-58-3	OSHA Final Limits 2 mg/m^3, ACGIH TLV 2 mg/m^3
Nonionic Surfactants	< 10	9016-45-9	None Established

The criteria for listing components in the composition section are as follows: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Non-hazardous components may be listed at 3.0% or greater if not proprietary in nature. This is not intended to be complete compositional disclosure. Refer to section 14 for applicable states right to know and other regulatory information.

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE / ODOR:..... Green Liquid / Mild Odor

SHORT TERM EXPOSURE: **GENERAL:** This product contains highly alkaline ingredients. **INHALATION:** Exposure to vapor, mist or liquid can cause mild to severe irritation to the respiratory tract, including chemical burns. Severe exposures could result in chemical pneumonia. **EYES:** Contact can cause severe damage including burns and blindness. The severity of the effects depend on concentration and how soon after exposure the eyes are washed. **SKIN:** Brief contact may cause slight to mild irritation with itching and local redness. Prolonged contact may cause more severe irritation, with discomfort or pain, local redness and swelling and possible tissue damage. **INGESTION:** Severe irritant. May cause severe burns of the mucous membranes of the mouth, esophagus, and stomach.

OSHA REGULATED:..... No

LISTED CARCINOGEN: ..... **NTP:** No **IARC MONOGRAPHS:** No

POTENTIAL HEALTH EFFECTS

INHALATION: ..... Severe Irritant
INGESTION:..... Severe Irritant

SKIN (DERMAL): ..... Irritant

OVER EXPOSURE EFFECTS: **Inhalation:** Respiratory tract irritant, may cause burns on acute contact. **Ingestion:** Severe irritant to mucous membranes and may cause perforation of the esophagus and stomach. Abdominal pain, nausea, vomiting, general gastro-intestinal upset can be expected. **Skin Contact:** Irritant, possibly corrosive if contact is prolonged. **Eye Contact:** Irritant, possibly corrosive to eye tissues. Tearing, redness, pain, impaired vision are symptoms. **Chronic Exposure:** Development of a defatting dermatitis on prolonged contact with potassium or sodium hydroxide has been reported. Continued irritation may lead to increased susceptibility to respiratory illness. **Aggravation of Pre-existing Conditions:** Persons with pre-existing skin disorders or eye problems, or impaired kidney or respiratory function may be more susceptible to the effects of the substance.

SECTION 4 – FIRST AID MEASURES

FIRST AID: **SKIN CONTACT:** Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately. **EYE CONTACT:** Flush eyes immediately with large amounts of water or normal saline solution, occasionally lifting upper and lower lids until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately. **INGESTION:** Give large amounts of fresh water or milk immediately. Do not give anything by mouth if person is unconscious or otherwise unable to swallow. If vomiting occurs, keep head below hips to prevent aspiration. Treat symptomatically and supportively. Seek medical attention immediately. **INHALATION:** Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial resuscitation. Keep person warm and at rest. Treat symptomatically and supportively. Seek medical attention immediately. Qualified medical personnel should consider administering oxygen.

SECTION 5 - FIRE FIGHTING MEASURES

FLASHPOINT:..... Non-flammable material

EXTINGUISHING MEDIA: Water fog or spray, Foam, Dry Powder, Carbon Dioxide (CO_2).

DECOMPOSITION PRODUCTS:..... From Fire; Smoke, Carbon Dioxide, Carbon Monoxide, & Oxides of Phosphorous.

LOWER FLAME LIMIT:..... NA

HIGHER FLAME LIMIT:..... NA

UNUSUAL FIRE AND EXPLOSION HAZARDS:..... Containers may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away.

FIRE FIGHTING EQUIPMENT:..... Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

CHEMTEL EMERGENCY NUMBER (24 Hour): 1-800-255-3924

SPILL: ..... In case of spillage, dilute with water to sewer if allowed by local and state regulations. If unable to wash product with water, absorb with inert material (sand or other approved material) and dispose of in accordance with applicable regulations.

RCRA STATUS: ..... 30,770 lbs. based on Sodium Hydroxide in blend

SECTION 7 – HANDLING AND STORAGE

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND PROMPT REMOVAL OF MATERIAL FROM EYES, SKIN, AND CLOTHING.

HANDLING AND STORAGE: .. Store away from acids. Store away from oxidizers or materials bearing a yellow "DOT" label.

PRECAUTIONARY MEASURES: ..... Keep away from heat, sparks and flame. Use only in an area well ventilated by moving air. Keep flow of fresh air until all vapors (odors) are gone. Do not breathe vapors. Do not breathe spray mist. Use respiratory devices and other personal protective equipment required by OSHA 29 CFR 1910. Do not get in eyes, on skin, or on clothing.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment.

EYE PROTECTION:..... Chemical safety goggles meeting the specifications of OSHA 29CFR 1910.133 / ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes. Wear safety glasses meeting the specifications of OSHA 29CFR 1910.133 / ANSI Standard Z87.1 where no contact with the eye is anticipated.

RESPIRATORY PROTECTION:..... Use NIOSH approved vapor respirator if exposure is unknown or exceeds permissible limits. A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use.

Use NIOSH / MSHA approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult the respirator manufacturer to determine appropriate type of equipment for a given application. Observe respirator use limitations specified by NIOSH / MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

PROTECTIVE GLOVES:..... Wear impervious gloves

VENTILATION: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

MECHANICAL EXHAUST: ..... Desired in closed places
LOCAL EXHAUST: ..... Recommended

VENTILATION NOTES: Provide natural or mechanical ventilation to control exposure levels below Airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust systems.

THRESHOLD LIMIT VALUE: 2 mg/m^3 based on Sodium Hydroxide in blend
PROTECTIVE EQUIPMENT:... HMIS PERSONAL PROTECTION: C: Safety Glasses, Gloves, Apron
The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / ODOR: ..... Green Liquid / Mild Odor
BOILING POINT: ..... 212°F
FREEZING POINT: ..... 32°F
VAPOR PRESSURE:..... ND
VAPOR DENSITY (AIR=1): ..... > 1
SPECIFIC GRAVITY: ..... 1.01 - 1.02
pH: 12.5-13.0
SOLUBILITY IN WATER: ..... Complete

SECTION 10 – STABILITY AND REACTIVITY

STABILITY:..... Stable
HAZARDOUS
POLYMERIZATION:..... Will not occur
POLYMERIZATION AVOID:... None
INCOMPATIBILITY:..... Oxidizers or Oxidizing Materials. Strong Acids
CONDITIONS TO AVOID:..... Excessive Heat or Flames

SECTION 11 – TOXICOLOGICAL INFORMATION

EYE EFFECTS:
The eye irritation hazard is based on data from information supplied by raw material(s) supplier(s).
SKIN EFFECTS:
The skin irritation hazard is based on data from information supplied by raw material(s) supplier(s).
ACUTE ORAL EFFECTS:
The acute oral toxicity is based on data from information supplied by raw material(s) supplier(s).
ACUTE INHALATION EFFECTS:
The acute respiratory toxicity is based on data from information supplied by raw material(s) supplier(s).

SECTION 12 – ECOLOGICAL INFORMATION

Data from laboratory studies and from scientific literature is noted below if available.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: ..... Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14- TRANSPORTATION INFORMATION

The data provided in this section is for information only. The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate regulations to properly classify your shipment for transportation.

PROPER SHIPPING NAME:..... Corrosive Liquid, N.O.S. (Contains Sodium Hydroxide), 8, UN1760, PG II. Guide # 154.
REPORTABLE QUANTITY:..... 30,770 lbs. based on Sodium Hydroxide in blend
HAZARD CLASS AND LABEL: 8, Corrosive Liquid
UN NUMBER: 1760
NA NUMBER: ..... None
PACKAGING SIZE:..... Drum & Bulk

SECTION 15 - REGULATORY INFORMATION

<u>SARA 311 CATEGORIES:</u>
EPA ACUTE:..... Yes
EPA CHRONIC: ..... Yes
EPA IGNITABILITY: ..... No
EPA REACTIVITY: ..... No
EPA SUDDEN RELEASE
OF PRESSURE: ..... No

CERCLA RQ VALUE:..... 30,770 lbs. based on Sodium Hydroxide in blend
SARA TPQ: ..... None
SARA RQ:..... 30,770 lbs. based on Sodium Hydroxide in blend
EPA HAZARD WASTE #: ..... DOO2 - Characteristics of Corrosivity
CLEAN AIR: ..... CAA Section 111
CLEAN WATER:..... CWA Section 311
SARA SECTION 313:..... No
NFPA HEALTH: 2

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NFPA FLAMMABILITY:..... 0
NFPA REACTIVITY: 0
DEA Chemical Trafficking Act:.. No
TSCA STATUS: ..... All ingredients in this product are on the TSCA Inventory List.

SECTION 16 - ADDITIONAL INFORMATION

FOOT NOTES: ND - No Data Available NA - Not Applicable < = Less Than > = Greater Than

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Company Health and Risk Assessment Unit, PO Box 1519, Gretna, LA 70054-1519.

REVISION STATEMENT: Changes have been made throughout this Material Safety Data Sheet. Please read the entire document.

DISCLAIMER:
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