



SAFETY DATA SHEET (SDS)

Date Revised : 02 / 15

Supersedes : 07 / 08

**GREAZENATOR
CLEANER / DEGREASER
CONCENTRATED**

**INDUSTRIAL - STRENGTH
REMOVES TOUGH PETROLEUM STAINS
NO O.S.H.A. TOXICOLOGICAL INGREDIENTS**

SECTION 1 : IDENTIFICATION OF SUBSTANCE / COMPANY

PRODUCT NAME / IDENTIFIER :

PRIMARY APPLICATION / RECOMMENDED USAGE :

DISTRIBUTED EXCLUSIVELY BY :

INFORMATION TELEPHONE :

EMERGENCY TELEPHONE :

USAGE RESTRICTIONS :

“ GREAZENATOR ” INDUSTRIAL –STRENGTH DEGREASER
Safely removes the toughest petroleum or food-based greases oils, or soils from any hard surface that can be cleaned with water . Contains NO ingredients which are listed in the Federal O.S.H.A.'s Toxicology Program or the International Agency for Research on cancer as being suspected carcinogens. Contains NO ingredients or substances listed as marine pollutants or pesticides .
HEALTHY CLEAN BUILDINGS
4 Wilmington Drive
Melville, New York 11747
1-631-643-1882
INFOTRAC: 800-535-5053 (ref : Arrow BioKln)
Refer to Product label

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the substance or mixture (GHS-US) :

Skin Irritation : Category 2

Eye Irritation : Category 2 A

NOTE : Prolonged contact with skin or eyes may cause minor physical irritation . Ingredients used to make this product are not acutely toxic .

Label Elements

Hazard Pictograms



(GHS-US Labeling) Mild Skin & Eye Irritant

Signal Word :

Warning

Hazards :

H316 : May Cause Mild Skin Irritation .

H320 : May Cause Eye Irritation .

Precautionary Statements : P101 : If medical advice is required, have product container or label available .

P102 Keep Out of Reach of Children

P103 . Read Label Before Use .

P264 : In the Event of Direct Contact , Wash Hands and Forearms Thoroughly After Handling

P305+P351+P338 – If In Eyes via Direct Contact , Rinse Cautiously with Water for Several Minutes .

If Easy To Do, Remove Contact Lenses .Continue Rinsing

P337+P313 – If Eye Irritation Persists , Get Medical Advice / Attention .

Other Hazards : None

Ingredients with Unknown Acute Toxicity : None



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SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization : Industrial – Strength , Heavy-duty Cleaner / Degreaser

Component Disclosure :

| Chemical Name | CAS No | Weight-% |
|--|-----------|----------|
| Surfactant Blend | Mixture | 5-15 |
| Silicic acid, Sodium salt; Sodium silicate | 1344-09-8 | 5-10 |
| Sodium Hydroxide | 1310-73-2 | 1-5 |
| Water | 7732-18-5 | 60-100 |

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

SECTION 4 : FIRST AID MEASURES

Description of Necessary Measures :

Relevant Routes of Exposure : Skin Contact , Eye Contact , Ingestion

After Skin Contact : Wash with plenty of mild soap and water ; followed by a warm water rinse . Apply a topical antiseptic agent to open wounds or broken skin . Remove contaminated clothing and shoes . Launder soiled , contaminated clothing before reuse . If skin irritation or rash persists, seek medical attention (P332+P313) .

After Eye Contact : Rinse cautiously with warm running water for 15 minutes . If easy to do, remove contact lenses .Continue water rinsing . (P 305+P351+P338) If eye irritation persists such as blinking , redness , or pain , seek medical attention . (P337 + P313) .

After Ingestion : Do Not Induce vomiting unless advised by a physician or poison control center . If patient is fully conscious , continue to rinse mouth with water and drink 2-3 glasses of water .If adverse conditions persist , seek medical attention . Never give anything by mouth if victim is unconscious, rapidly losing consciousness , or is convulsing .Call a Poison Control Center / Doctor / Physician, if necessary (P312) .

After Inhalation : Move to fresh air . Keep individual at rest in a position comfortable for breathing .Consult a doctor if adverse conditions persist (P261) .

Note to Physicians : Treat symptomatically .

SECTION 5 : FIRE FIGHTING MEASURES :

Flashpoint (°F, °C , PMCC) : Non Established = >212°F

Suitable Extinguishing Media : Water , Water Spray , Dry Powder , Foam , Carbon Dioxide (CO2) . Does not support combustion .

Use extinguishing media appropriate for surrounding fire .

Auto-Ignition Temperature : ND

Special Protective Equipment for Fire Fighters : Wear NIOSH approved , self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or other positive pressure mode when fighting fires . Cool fire exposed containers with water spray .

Unusual Fire Hazards : Dried product may be capable of burning . Combustion products may be toxic .

Flammability : Not Flammable (Aqueous-based)

Unsuitable Extinguishing Media : None

Lower / Upper Flammable Limits : Not Available

Hazardous Decomposition Products : Carbon Monoxide , Carbon Dioxide and other toxic gases or vapors .



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SECTION 6 : ACCIDENTAL RELEASE MEASURES

Avoid contact with skin, eyes, or clothing . Use personal protective equipment as required .Exercise caution from slipping on leaked / spilled product . Mop up excess product . Rinse several times with water .

Leak and Spill Procedure : Collect excess product for disposal . Flush remaining product from spill with water to clean up residue .Absorb slurry with an appropriate liquid-binding absorbent (ie : sand, diatomite , universal binders , sawdust) . Recover into a labeled , empty container for disposal according to local / national / international regulations .

Precautions To Be Taken in Handling & Storing : Protect from freezing . Product shelf life is best retained by storing at 45 -100 ° F .

Environmental Precautions : Make best efforts to prevent concentrate or rinse water entry into sewers and public waters. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right-To-Know Act of 1968 and of 40 CFR Part 372 .

SECTION 7 : HANDLING & STORAGE REQUIREMENTS

KEEP OUT OF REACH OF CHILDREN

Precautions for Safe Handling : Read product literature, label , and SDS before use . Use product strictly according to label directions .

Handle in accordance with good industrial hygiene and safety practices .Wash hands and other exposed areas with soap and water before eating, drinking, smoking; or when leaving work . Provide adequate ventilation in storage area . Avoid contact with moist air and steam . Avoid personal contamination after a spill .

Hygiene Measures : Wash hands and forearms thoroughly after handling . Launder soiled, contaminated clothing before re-use .

Safe Storage Conditions : Keep original containers tightly closed in a cool , well-ventilated place away from incompatible substances and open flames . Keep container closed when not in use .

Incompatible Products : Low pH chemicals ; High pH chemicals ; Oxidizing Agents

Incompatible Circumstances : Direct Sunlight . Keep away from open flames . Keep from Freezing .

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Control Parameters : Relatively no effect if exposed in small amounts . Relative to other similar materials, a single dose of this product is rarely toxic by inhalation or ingestion . When ingested in small amounts , a numbness of the mouth and/or irritation of the stomach can develop . After prolonged contact , eye irritation may occur . After repeated and / or prolonged contact with skin , dermatitis and skin sensitization may develop . Slight "redness" may develop on hands and forearms if individual has a history of dermal allergic reaction .

Engineering Controls : Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered. Facilities storing or utilizing this material should be equipped with an eyewash station and safety shower . Use adequate ventilation to keep airborne concentrations low .

Local Exhaust : Under consideration . Not required .

Exposure Limits :

Exposure Controls :

Personal Protective Equipment : Avoid unnecessary exposure

Hand protection : Good practice to wear chemical –resistant gloves

Eye Protection : Chemical goggles or safety glasses as described by OSHA Regulation 29 CFR 1910.133 or European Standard EN 166 .

Respiratory Protection : Good practice to wear appropriate mask . Follow the OSHA Respirator Regulations found in 29CFR 1910.134 or European Standard EN 149 . Whenever necessary, always use a NIOSH or European Standard EN Approved Respirator .

Work / Hygienic Practices : Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance. Wash contaminated clothing before re-use .

Other Information : Do Not eat, drink, or smoke during use



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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|--|---|---|
| Physical State : Liquid | Color : Clear | Odor : Mild , Non-Descriptive |
| pH (as is) : 12.0 (in conc) // 10.5 (diluted) | Relative Evaporation Rate : < 1 | Melting Point : NE |
| Freezing Point : < 32 °F, < 0 °C | Boiling Point : > 212 °F | Flashpoint : ≥ 212 °F (100°C) ASTM D56 |
| Solubility in Water : Miscible | Specific Gravity (Water = 1) : 1.01 | Flammability : NA |
| Explosive Limits : NE | Vapor Pressure : NA | Upper/Lower Flammability Limits : ND |
| Vapor Density (Air = 1) : < 1 | Partition coefficient : (n-octanol/water) NE | Auto-ignition Temperature : NE |
| Decomposition Temp. : NE | Viscosity : 1 water = 1 | |

SECTION 10 : STABILITY AND REACTIVITY

Reactivity : Considered to be non-reactive under normal conditions . **Chemical stability :** Stable under Normal Conditions
Possibility of Hazardous Reactions : Not expected to occur with normal handling and storage.
Conditions to Avoid : Direct Sunlight , Extremely High or Low Temperatures
Incompatible Materials : Low pH Acids ; High pH Alkalis ; Oxidizing & Reducing Agents ; Materials reactive with Aldehydes .
Hydroxyl compounds ; Reactive Metals such as Aluminum , Zinc and Tin ; Alcohol , and Amines .
Hazardous Decomposition By-products : Carbon Monoxide , Carbon Dioxide , and other toxic fumes and gases .
Fumes Hazardous Polymerization : Should not occur

SECTION 11 : TOXICOLOGICAL INFORMATION

Information on Toxicological Effects :
Likely Routes of Exposure : Inhalation , Skin Contact , Eye Contact , Oral Ingestion
Conditions to Avoid :
Inhalation : Minor Respiratory Irritant Effect . Avoid breathing mist . May cause respiratory irritation . Symptoms are nasal discomfort and coughing .
Skin Contact : Minor Irritant Effect as diluted product . Prolonged Exposure May Cause Redness, Cracking of Skin, and Pain . Sensitization possible through prolonged contact .
Skin Corrosion / Irritation : May Cause Skin Irritation (@ pH – 12 (in concentrate))
Skin Sensitization : Not classified , except for personal allergic reactions .
Eye Contact : May Cause Moderate Irritating Effect As Diluted Product . Prolonged Exposure May Cause Redness, Swelling, Pain and Blurred Vision .
Serious Eye Damage / Irritation : May Cause Serious Eye Irritation as concentrate under prolonged conditions .
Ingestion : May Be Harmful If Swallowed . May Cause Digestive Irritation , Nausea, or Vomiting
Respiratory Sensitization : Not classified (@ pH – 12 (in concentrate))
Symptoms Related to the Physical, Chemical, and Toxicological Characteristics : Use of this product may aggravate pre-existing skin ; eye ; and respiratory disorders including asthma and dermatitis .
Available Delayed and Immediate Effects (Chronic Effects from Short and Long Term Exposure) : No Further Information
Measures of Toxicity : No Further Information Available
Teratogenicity, Mutagenicity : No Data Available
Reproductive Toxicity : Not Classified
Specific Target Organ Toxicity (Single Exposure) : Not Classified
Specific Target Organ Toxicity (Repeated Exposure) : Not Classified
Carcinogenic Categories : This product does not contain any substances that are considered by ACGIH, OSHA, or NTP to be human carcinogens .
NTP (National Toxicity Program) : None of the Ingredients are listed as of this date .
IARC (International Agency for Research on Cancer) : None of the Ingredients are listed as of this date .
OSHA (Occupational Safety and Health Administration) : None of the Ingredients are listed as of this date .
Acute Toxicity :



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TOXICOLOGICAL INFORMATION (continued)

Acute Toxicity (Ingredient) : Silicic Acid , Sodium Salt (1344-09-8) – See Below

| Standard : | Species : | Result : |
|-------------|-----------|--------------|
| LD50 oral | Rat | 1153 mg/kg |
| LD50 dermal | Rabbit | > 4640 mg/kg |
| ATE (oral) | | 1153 mg/kg |

Acute Toxicity (Ingredient) : Sodium Hydroxide – See Below

| Standard : | Test : | Species : | Result : | Exposure : |
|---------------|--------|-----------|--------------------|---------------|
| LD 50 / LC 50 | Draize | Rabbit | Eye : 400 ug. Mild | |
| LD 50 / LC 50 | Draize | Rabbit | Eye : 1% Severe | |
| LD 50 / LC 50 | Draize | Rabbit | Eye: 50 ug. | 24 hr. Severe |
| LD 50 / LC 50 | Draize | Rabbit | Eye : 1 mg. | 24 hr. Severe |
| LD 50 / LC 50 | Draize | Rabbit | Skin : 500 mg. | 24 hr. Severe |

Acute Toxicity : Greazenator
Component Acute Toxicity Information – See Below

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|------------------------------|----------------------------|---------------|-----------------|
| Water 7732-18-5 | > 90 mL/kg (Rat) | Not Available | Not Available |
| Silicic Acid 1344-09-8 | 1500 mg/kg – 3200 mg/kg | n/a | n/a |
| Sodium Hydroxide 131-73-2 | 2000 mg/kg | n/a | n/a |

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.



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TOXICOLOGICAL INFORMATION (continued)

Epidemiology: No information found.
Teratogenicity: No information found.
Reproductive Effects: No information found.
Neurotoxicity: No information found.
Mutagenicity: No information found.
Other Studies: NA

SECTION 12 : ECOLOGICAL INFORMATION

ENVIRONMENTAL ACCREDITATION : This product contains NO ingredients which are listed in the federal O.S.H.A. 's Toxicology Program or the International Agency for Research on cancer as being suspected carcinogens . This product contains NO ingredients or substances listed as marine pollutants or pesticides . If this product becomes a waste , it does not exhibit the properties of ignitability , corrosivity , reactivity , or environmentally- persistent toxicity .

| Product / Ingredient : | Standard : | Species : | Result : | Exposure : |
|---------------------------------------|----------------|-------------------|-------------|------------|
| Silicic acid, sodium salt (1344-09-8) | LC 50 fishes 1 | Brachydanio rerio | 3185 mg / L | 96 hr. |
| | EC 50 Daphnia | Daphnia Magna | 216 mg / L | 96 hr. |

Acute Toxicity : Sodium Hydroxide | CAS # 131 -73-2) - See Below

| Condition : | Result : |
|--|--|
| Monitoring data | The pH has been monitored very extensively in ecosystems. Significant differences in concentrations between ecosystems occur. The most important freshwater aquatic ecosystems of the world revealed average annual pH values between 6.5 and 8.3 (UNEP, 1995). Also sodium has been measured extensively in aquatic ecosystems. For example UNEP (1995) reported the concentration for a total number of 75 rivers in North America, South America, Asia, Africa, Europe and Oceania. The 10th – percentile, mean and 90th-percentile were 1.5, 28 and 68 mg/l, respectively. |
| Acute/prolonged toxicity to fish | Ceriodaphnia sp.: EC50 = 40 mg/l (Warne et al., 1999). No other valid studies available. The hazard of NaOH for the environment is caused by the hydroxyl ion (pH effect). For this reason the effect of NaOH on the organisms depends on the buffer capacity of the aquatic or terrestrial ecosystem (see also 3.1.2). Also the variation in acute toxicity for aquatic organisms can be explained for a significant extent by the variation in buffer capacity of the test medium. LC50 values ranged between 33 and 189 mg/l. (CONTINUED) |
| Acute toxicity to aquatic invertebrates | |
| Toxicity to aquatic plants e.g. algae | |
| Toxicity to microorganisms e.g. bacteria | |



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ECOLOGICAL INFORMATION (continued)

Acute Toxicity : Sodium Hydroxide I CAS # 131 -73-2) - continued

| | |
|---|---|
| Chronic toxicity to fish | Because the buffer capacity, pH, and the fluctuation of the pH are very specific for a certain ecosystem, it was not considered useful to derive a PNEC . For this reason, there is no need for additional toxicity testing with Sodium Hydroxide . |
| Chronic toxicity to aquatic invertebrates | |

Greazenator :

Mobility : Completely Soluble . Very mobile in soil and very soluble in water. No transport to air.

Persistence and Degradability : NA

Bioaccumulative Potential : NA

Environmental : No Additional Information Available

Terrestrial Toxicity :No Additional Information Available

OTHER ADVERSE EFFECTS :

Effect on Ozone LayerNo Additional Information Available

Effect on Global Warming :No Additional Information Available

Other Information :Avoid release into the Environment

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations : Dispose in safe manner in accordance with local / state/federal regulations.

Dispose of contents / container in accordance with local/regional/national/international regulations . Can be incinerated with conventional waste stream after consulting with the waste disposal facility operator and the pertinent authorities while adhering to the necessary regulations .

Ecology – Waste Materials : Avoid release into environment .

Recommended Cleansing Agents : Water Only

SECTION 14 : TRANSPORT INFORMATION

In Accordance with DOT Regulations

Not regulated for Transport

UN Number (DOT, IMDG, IATA) Not Regulated

UN Proper Shipping Name (DOT, IMDG, IATA) Not Regulated

Transport Hazard Class(es) (DOT, IMDG, IATA)Not Regulated

Packing Group (DOT, IMDG, IATA)Not Regulated

Environmental Hazards : Marine Pollutant (Yes/No)NO

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code...Not Applicable

Special Precautions for User :Not Applicable



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SECTION 15 : REGULATORY INFORMATION

Safety, Health, and Environmental Regulations/Legislation specific for the substance or mixture

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :

The Occupational Safety and Health Administration requires Safety Data Sheets to provide any hazards that may be associated with the product and make this information available in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this SDS may contain additional health hazard information not pertinent to consumer use.

US TSCA INVENTORY STATUS : All chemicals used in this product are either listed on or exempt from the TSCA Inventory.

SARA 302 COMPONENTS : No chemicals used in this product are reportable under SARA Title III, Section 302.

SARA 311/ 312 / 313 COMPONENTS :

.....**SARA 311 / 312**

.....**Acute Health Hazard : Yes**

.....**Chronic Health Hazard : No**

.....**Fire Hazard : No**

.....**Sudden Release of Pressure Hazard : No**

.....**Reactive Hazard : No**

.....**SARA 313 :** This product does not contain listed substances above the "de minimus" level .

Clean Air Act : Not listed as a hazardous air pollutant (HAP). It is not a Class 1 Ozone Depleter. It is not a Class 2 Ozone Depleter.

Clean Water Act : Not listed as a Hazardous Substance. It is not a Priority Pollutant. It is not a Toxic Pollutant .

U.S. Federal Regulations :No Additional Information Available

US-EPA (Environmental Protection Agency)None of the Ingredients are List

CALIFORNIA PROPOSITION 65 : Although this product has a chemical ingredient known to the State of California to cause birth defects or other reproductive harm , the % amount used in GREAZENATOR falls below reportable levels.

MASSACHUSETTS COMMONWEALTH'S RIGHT TO KNOW : No chemicals used in this product are reportable under the Massachusetts Commonwealth's Right to Know Act.

NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW : No chemicals used in this product are reportable under the New Jersey's Right to Know Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW : No chemicals used in this product are reportable under the Pennsylvania Worker and Community Right to Know Act.

CANADA DSL STATUS : All chemicals used in this product are either listed or exempt.

International Regulations :

CANADA DSL STATUS : All chemicals used in this product are either listed or exempt.

WHMIS: This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and this SDS contains all the information required by those regulations.

EU-REGULATIONSNo Additional Information Available



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SECTION 16 : OTHER INFORMATION

| HMIS Rating | | GHS classification ratings order of severity differ from NFPA and HMIS | |
|----------------------------|----------|--|-------------------------|
| HEALTH | 1 | HMIS/NFPA Hazard Ratings | GHS Hazard Categories |
| FLAMMABILITY | 0 | 0= Minimal Hazard | Cat 1 ~ Severe Hazard |
| PHYSICAL HAZARD | 0 | 1= Slight Hazard | Cat 2 ~ Serious Hazard |
| PERSONAL PROTECTION | B | 2= Moderate Hazard | Cat 3 ~ Moderate Hazard |
| | | 3= Serious Hazard | Cat 4 ~ Slight Hazard |
| | | 4= Severe Hazard | Cat 5 ~ Minimal Hazard |

DISCLAIMER : This document is intended to provide a brief summary of our present knowledge and guidance regarding the use of this material . The information set forth herein has been compiled from sources to be dependable and is believed to be accurate as of the date of issuance . This information is offered in good faith by HEALTHY CLEAN BUILDINGS and no warranty, expressed or implied, is made . The user assumes all liability for any damage or injury resulting from misuse, from any failure to adhere to recommended practices according to product label (and such), or from any hazards inherent in the nature of the product . This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contracted relationship.

Footnotes : CALC-Calculated; COR-Corrosive; CS-Cancer Suspect Agent; EST-Estimated; HMIS-Hazardous Material Identification System; NA-Not Applicable; ND-No Data ; NE – Data Not Established; OX- Oxidizer; PEL-Permissible Exposure Limit; PPI-Personal Protection Index ; STEL-Short Time Exposure Limit; TLV-Threshold Limit Value; TS-Trade Secret ; TWA-Time Weighted Average