

Chemicals ... Safety Data Sheet

Concentrated formula designed to attack and loosen moderate to heavy grease and oil

Section 01 - Identification

Product Identifier Lightening Heavy Duty Degreaser

Other Means of Identification None

Product Use and Restrictions on

Use

build-up.

Initial Supplier Identifier Advance Chemicals Ltd.

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Section 02 - Hazard Identification

GHS-Classification

Acute Toxicity-Dermal Category 4 Skin Corrosion/Irritation Category 1A Serious Eye Damage/Irritation Category 1 **STOT-Single Exposure** Category 3

Physical Hazards

Corrosive to Metals Category 1

Danger

Hazards Statements

H312 - Harmful in contact with skin.

H314 – Causes severe skin burns and eye damage.

H335 – May cause respiratory irritation.

H290 – May be corrosive to metals.

Pictograms



Precautionary Statements

P234 – Keep only in original container.

P405 – Store locked up.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P271 – Use only outdoors or in a well-ventilated area.

P260 - Do not breathe mist, vapours or spray.

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P280 – Wear protective gloves, protective clothing, eye protection, and face protection.

P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 – Wash contaminated clothing before reuse.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301 +P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310 – Immediately call a POISON CENTER or doctor/physician.

P390 – Absorb spillage to prevent material damage.

P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Potassium Hydroxide	1310-58-3	1-15%	
Sodium Metasilicate	6834-92-0	1-15%	
Glycol Ether EB	111-76-2	5-20%	
Water and/or ingredients not		Balance	
classified as hazardous under			
the Hazardous Products			
Regulations			

Section 04 - First Aid Measures

Inhalation	If symptoms are experienced, remove vid	ctim to fresh air. Give artificial respiration only if

breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention.

Skin Contact / Absorption Remove contaminated clothing. Rinse skin with lukewarm, gently flowing water and non-

abrasive soap for 60 minutes. Seek immediate medical attention. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

Eye Contact Immediately flush eye(s) with lukewarm, gently flowing water for 60 minutes, while forcibly

holding the eyelid(s) open to ensure complete irrigation of the eye tissue. If a contact lens

is present, remove only if easy to do so. Seek immediate medical attention.

Ingestion Never give anything by mouth if victim is rapidly losing consciousness, is unconscious or

convulsing. Have victim rinse mouth with water. Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Have victim

rinse mouth again. Seek immediate medical attention.

Additional Information Not Available

Section 05 - Fire Fighting Measures

Unsuitable Extinguishing Media Not Available

Specific Hazards Arising From the Carbon monoxide, carbon dioxide and other irritating fumes.

Chemical

Precautions for Fire-Fighters

Special Protective Equipment and Wear NIOSH-approved self-contained breathing apparatus and protective gear.

Further Information Not Available

Section 06 - Accidental Release Measures

Personal Precautions / Protective **Equipment / Emergency**

Procedures

Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.

Environmental Precautions

Prevent product from entering sewers or waterways.

Methods and Materials for Containment and Cleaning Up Clean up spill with non-reactive absorbent material and place in suitable, labelled containers for proper disposal.

Section 07 - Handling and Storage

Use proper equipment for lifting and transporting all containers. Use sensible industrial **Precautions for Safe Handling**

hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations

that could lead to harmful exposure.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area out of direct sunlight and away from open flames,

sparks, heat and other ignition sources.

Strong oxidizing agents, bases, acids, metals. Incompatibilities

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Potassium Hydroxide	ACGIH	TLV-C	2 mg/m ³
	OSHA	PEL-C	2 mg/m ³
Glycol Ether EB	ACGIH	TLV-TWA	20 ppm
	OSHA	PEL-TWA	25 ppm
	OSHA	PEL-T-TWA	50 ppm

Engineering Control(s)

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and

> control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by

exhaust systems.

Other Emergency shower and eyewash must be available and tested in accordance with

regulations and be in close proximity.

Protective Equipment

Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when Eyes/Face

product is handled. Contact lenses should not be worn; they may contribute to severe eye

injury.

Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all **Hand Protection**

times. Wash contaminated clothing and dry thoroughly before reuse.

Body suits, aprons, and/or coveralls of chemical resistant material should be worn at all **Skin and Body Protection**

times. Wash contaminated clothing and dry thoroughly before reuse.

Impervious boots of chemically resistant material should be worn at all times. No special

footwear is required other than what is mandated at place of work.

Wear a NIOSH-approved respirator upon vapour or mist formation. **Respiratory Protection**

Thermal Hazards Not Available

Section 09 - Physical and Chemical Properties

<u>Appearance</u>

Physical State Liquid

Yellow Colour

Solvent-like Odour

Odour Threshold Not Available

Property

13.3 pН

Melting Point/Freezing Point Not Available

Initial Boiling Point and Boiling

Range

Not Available

Flash Point Not Applicable

Not Available **Evaporation Rate**

Flammability Non-flammable

Upper Flammable Limit Not Applicable

Lower Flammable Limit Not Applicable

Vapour Pressure (mm Hg, 20°C) 18.5

Not Available Vapour Density (Air=1)

Relative Density Not Available

Solubility(ies) Soluble in water

Partition Coefficient: n-

octanol/water

Not Available

Not Applicable **Auto-ignition Temperature**

Decomposition Temperature Not Available

Viscosity Not Available

Explosive Properties None

Specific Gravity (Water=1) 1.025 % Volatiles by Volume Not Available

Formula Mixture

Molecular Weight Not Available

Section 10 - Stability and Reactivity

Reactivity Not Available

Stability Normally stable.

Possibility of Hazardous

Reactions

Hazardous polymerization will not occur.

Conditions to Avoid Heat, sparks, open flames and other ignitions sources.

Incompatible Materials Strong oxidizing agents, bases, acids, metals.

Hazardous Decomposition

Products

Carbon monoxide, carbon dioxide and other irritating fumes.

Section 11 - Toxicological Information

Acute Toxicity Estimate

Component	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Lightening Heavy Duty Degreaser	7.8 g/kg	1.9 g/kg	20 mg/L

This product has been classified in accordance with the Hazardous Products Regulations using ATE formula documented in the GHS standard.

Chronic Toxicity – Carcinogenicity

Component IARC

Lightening Heavy Duty Degreaser

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

Skin Corrosion/Irritation Capable of causing severe burns, blisters, ulcers and permanent scarring. Glycol EB can

be absorbed through the skin and show symptoms of central nervous system depression.

IngestionCan cause burns to the lips, tongue, throat, esophagus and stomach; abdominal pains;

nausea; vomiting; diarrhea and death.

Inhalation Inhalation of vapours or mists may cause irritation to the respiratory tract.

Serious Eye Damage/Irritation Corrosive. Capable of causing severe eye burns and permanent damage, including

blindeness.

Respiratory or Skin Sensitization Not Available
Germ Cell Mutagenicity Not Available
Reproductive Toxicity Not Available

STOT-Single Exposure May cause irritation to the respiratory tract.

STOT-Repeated Exposure Not Available
Aspiration Hazard Not Available
Synergistic Materials Not Available

Section 12 – Ecological Information

Ecotoxicity

Component Toxicity to Algae Toxicity to Fish Toxicity to Daphnia and Other Aquatic Invertebrates assium Hydroxide EC50(Algae, 120hr): LC50(Gambusia affinis, 96hr): LC50(Ceriodaphnia dubia,

Potassium Hydroxide $EC_{50}(Algae, 120hr)$: $LC_{50}(Gambusia affinis, 96hr)$: 1337mg/L 80mg/L Not Available Not Available

Not Available Not Available EC_{50} (Ceriodaphnia dubia, 48hr): 33.53 mg/L EC_{50} (Algae, 7d): LC_{50} (Leuciscus idus LC_{50} (Daphnia magna, 24hr):

48hr): 40mg/L

Glycol Ether EB $EC_{50}(Algae, 7d)$: $LC_{50}(Leuciscus idus LC_{50}(Daphnia magna >1,000 mg/L melanotus, 48hr)$: 186 mg/L 1,720 mg/L

Biodegradability Potassium hydroxide and glycol ether EB are expected to biodegrade.

Bioaccumulation Potassium hydroxide is not expected to bioaccumulate.

Mobility Glycol ether EB is expected to have high mobility in the soil.

Other Adverse Effects Not Available

Section 13 – Disposal Considerations

Waste From Residues/Unused

Products

Dispose in accordance with all federal, provincial, and/or local regulations including the

Canadian Environmental Protection Act.

Contaminated Packaging Dispose in accordance with all federal, provincial, and/or local regulations including the

Canadian Environmental Protection Act.

Section 14 – Transport Information

UN Number UN3266

UN Proper Shipping Name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium hydroxide)

Transport Hazard Class(es) 8

Packaging Group

Environmental HazardsNot listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special Precautions Not Available

Transport in Bulk Not Available

Additional Information Packing Group Limited Quantity Index

I 0 II 1 L III 5 L

<u>TDG</u>

Other Secure containers (full and/or empty) with suitable hold down devises during shipment and

ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 – Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 – Other Information

Preparation Date

December 30, 2015

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

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If you have any questions or concerns please call our customer service center.

References:

- 1) CHEMINFO
- 2) eChemPortal
- 3) TOXNET
- 4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA
- 7) PAN

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