

Issue Date August 2008

Revision Date August 2013

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Atomic 235™ Heavy-Duty Degreaser and Engine Cleaner

Other Means of Identification

SDS # 67730/SDS/01

UN/ID No. UN1760

Product Code 67730

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Heavy-Duty Degreaser and Engine Cleaner.

Details of the Supplier of the Safety Data Sheet

Supplier Address Certol International, LLC.
6120 East 58th Avenue
Commerce City, Colorado 80022
www.Certol.com

Emergency Telephone Number

Company Phone Number(s)

Phone: 303-799-9401
Toll-Free: 1-800-843-3343
Fax: 303-799-9408

24 Hour Emergency Telephone

INFOTRAC: 1-800-535-5053 (North America)
INFOTRAC: 1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Classification

Skin Corrosion / Irritation	Category 1C
Serious Eye Damage / Eye Irritation	Category 1
Skin Sensitization	Category 1

Signal Word Danger.

Hazard Statements Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

Appearance Clear Purple Liquid.

2. HAZARDS IDENTIFICATION (continued)

Physical State Liquid.

Odor Citrus.



Precautionary Statements-Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.
Wash face, hands and any exposed skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
Do not breathe dust/fume/gas/mist/vapors/spray.

Precautionary Statements-Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Control Center or doctor/physician.

IF SWALLOWED: Immediately call a Poison Control Center or doctor/physician. Rinse mouth. Do not induce vomiting.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Control Center or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

Precautionary Statements - Storage

Keep container tightly closed and store in a dry, cool and well-ventilated place away from incompatible materials.

Keep out of the reach of children and pets.

Precautionary Statements - Disposal

Dispose according to all local, state and federal regulations.

Hazards not otherwise classified (HNOC)

May be harmful if swallowed.

Other Information

Toxic to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Ethylene Glycol n-Butyl Ether	111-76-2	*
Sodium Hydroxide	1310-73-2	*
D-Limonene	5989-27-5	< 1

*The exact percentage is a trade secret.

4. FIRST AID MEASURES

First Aid Measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician or Poison Control Center immediately.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call physician immediately.
Ingestion	Rinse mouth. Drink large amounts of water. Do not induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Call a physician or Poison Control Center immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Call a physician if you feel unwell.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms	Swallowing may cause burns, tissue ulceration, diarrhea and vomiting. Irritation to the skin and eyes. Inhalation may cause irritation, coughing, nausea and headache.
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Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water, CO₂, dry chemical or foam for extinction.

Unsuitable Extinguishing Media

Not Determined.

Specific Hazards Arising from the Chemical

None Known.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Use personal protective equipment as required. The wet contaminated surface may be slippery.

For Emergency Responders

Restrict access to spill area. Ventilate the area.

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas.
See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Absorb with inert material. Shovel or sweep spills. Flush remainder with plenty of water.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protection recommended in Section 8.
Wash thoroughly after handling.
Do not breathe dust/fumes/gas/mist/vapors/spray.

Keep out of the reach of children and pets.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Keep container tightly closed and store in a dry, cool and well-ventilated place away from incompatible materials.

Keep out of the reach of children and pets.

Incompatible Materials

Strong acids and oxidizers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene Glycol n-Butyl Ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ TWA: 25 ppm (Vacated) TWA: 120 mg/m ³ (Vacated)	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
Sodium Hydroxide 1310-73-3	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ Ceiling: 2 mg/m ³ (Vacated)	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³

Appropriate Engineering Controls

Engineering Controls

Apply technical measures to comply with the occupational exposure limits.
Eyewash stations.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection

Wear goggle or a face protection shield.

Skin and Body Protection

Chemical resistant, impermeable gloves.
Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection

Under normal conditions a respirator is not normally required.
A mask or respirator may be used if vapor concentration is high.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid.
Appearance	Clear Purple Liquid.
Color	Purple.
Odor	Citrus.

Property	Values	Remarks * Method
pH	13.5	68°F (20°C)
Melting Point / Freezing Point	< 32°F / < 0°C	
Boiling Point / Boiling Range	> 210°F / >99°C	(Approximate)
Flash Point	Not Flammable.	
Evaporation Rate	< 1	(Butyl acetate = 1) (Approximate)
Flammability (Solid/Gas)	N/A-Liquid.	
Flammability Limits In Air	Not Flammable.	
Vapor Pressure	Not Determined.	(Approximate) @ 68°F (20°C)
Vapor Density	> 1	(Air = 1) (Approximate)

9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Specific Gravity	1.008	68°F (20°C) (Water = 1)
Water Solubility	Completely Soluble.	
Partition Coefficient	Not Determined.	
Autoignition Temperature	Not Determined.	
Decomposition Temperature	Not Determined.	
Kinematic Viscosity	Not Determined.	
Dynamic Viscosity	Not Determined.	
Explosive Properties	Not Determined.	
Oxidizing Properties	None.	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization will not occur.

Conditions to Avoid

None under normal processing.

Incompatible Materials

Strong acids and oxidizers.

Hazardous Decomposition Products

None under normal processing.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation	Avoid breathing vapors and mists.
Eye Contact	May cause severe eye damage.
Skin Contact	May cause irritation and burns.
Ingestion	Do not taste or swallow.

11. TOXICOLOGICAL INFORMATION (continued)

Component Information

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Ethylene Glycol n-Butyl Ether 111-76-2	470 mg/kg (Rat)	2270 mg/kg (Rat)	2.21 mg/L (Rat) 4 hr.
Sodium Hydroxide 1310-73-2	N/A	1350 mg/kg (Rabbit)	N/A

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol n-Butyl Ether 111-76-2	A3	Group 3	N/A	N/A

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Confirmed Animal Carcinogen With Unknown Relevance to Humans.

IARC (International Agency for Research on Cancer)

Group 3 - Not Carcinogenic to Humans.

Numerical Measures of Toxicity

Not Determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic organisms.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene Glycol n-Butyl Ether 111-76-2	No Information	Known Toxin	No Information	Known Toxin
Sodium Hydroxide 1310-73-2	No Information	Known Toxin	No Information	No Information

Persistence and Degradability

Not Determined.

Bioaccumulation

Not Determined.

Mobility

Not Determined.

Other Adverse Effects

Not Determined.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Dispose according to all local, state and federal regulations.

Contaminated Packaging

Dispose according to all local, state and federal regulations.

Chemical Name	California Hazardous Waste Status
Sodium Hydroxide 1310-73-2	Toxic / Corrosive
D-Limonene 5989-27-5	Toxic

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN1760
Proper Shipping Name Corrosive Liquids, n.o.s. (Sodium Hydroxide)
Hazard Class 8
Packing Group III

IATA

UN/ID No UN1760
Proper Shipping Name Corrosive Liquids, n.o.s. (Sodium Hydroxide)
Hazard Class 8
Packing Group III

IMDG

UN/ID No UN1760
Proper Shipping Name Corrosive Liquids, n.o.s. (Sodium Hydroxide)
Hazard Class 8
Packing Group III

15. REGULATORY INFORMATION

International Inventories

Not Determined.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/
 European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

Chemical Name	CAS No	Weight %	SARA-Threshold Values %
Ethylene Glycol n-Butyl Ether	111-76-2	> 1.0%	1.0%

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Hydroxide 1310-73-2	1000 lb.	N/A	N/A	X

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA / SARA RQ	Reportable Quantity (RQ)
Sodium Hydroxide 1310-73-2	1000 lb.	N/A	RQ 1000 lb. final RQ RQ 454 kg final RQ

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene Glycol n-Butyl Ether 111-76-2	X	X	X
Sodium Hydroxide 1310-73-2	X	X	X

16. OTHER INFORMATION

NFPA

Health Hazards	Flammability	Instability	Special Hazards
2	1	0	Not Determined.

HMIS

Health Hazards	Flammability	Physical Hazards	Personal Protection
Not Determined.	Not Determined.	Not Determined.	Not Determined.

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Revision Note New format.

Disclaimer

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End of Safety Data Sheet