

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Product identifier**
Product Name: Purple Degreaser
Product Codes(s): Purple Degreaser
Synonym(s): Aqueous alkaline mixture
REACH Registration Number: No data available
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
General Use: General purpose alkaline degreaser and cleaner
Uses advised against: No uses advised against
- 1.3 Details of the supplier and of the safety data sheet**
Manufactured By
 Ag ProVision, LLC
 277 Faison McGowan Road
 Kenansville, NC 28349 USA
 +1-910-296-0302
 customercare@agprovision.com
- 1.4 Emergency telephone number:**
 In the continental USA call CHEMTREC: +1-800-424-9300 (24 hours)
 Outside the continental USA call CHEMTREC: +1-703-527-3887 (24 hours)

SECTION 2 - HAZARDS IDENTIFICATION

- 2.1 Classification of substance or mixture**
Product definition: Substance
Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation (EC) No 1272/2008
 Skin Corrosive - Category 1C [H314]

2.2 Label Elements

Hazard Symbol(s):



GHS05

Signal Word:

Danger

Hazard Statement(s):

H314 - Causes severe skin burns and eye damage

Precautionary Statements:

[Prevention]

P260 - Do not breathe mist or spray.
 P264 - Wash hands and other skin areas exposed to material thoroughly after handling.
 P280 - Wear protective gloves, protective clothing, eye protection and face protection.

[Response]

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.
 P363 - Wash contaminated clothing before reuse.
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P310 - Immediately call a POISON CENTER or doctor.
 P321 - Specific treatment: Seek IMMEDIATE medical advice. Refer to product label and Section 4 of this SDS.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

[Storage]

P405 - Store locked up.

[Disposal]

P501 - Dispose of contents and containers in accordance with national and local regulations.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

% by Weight	Ingredient	CAS Number	EC Number	Annex Number	GHS Classification
1 - 4	2-Butoxyethanol	111-76-2	203-905-0	603-014-00-0	H302, H312, H315, H319, H332
1 - 4	Proprietary Surfactant	-----	-----	-----	H226, H315, H319, H370
1 - 5	Potassium Hydroxide	1310-58-3	215-181-3	019-002-00-8	H314
0.5 - 2.5	Silicic Acid, Disodium Salt	1344-09-8	215-687-4	-----	H302, H315, H319
0.5 - 1.5	Sodium Hydroxide	1310-73-2	215-185-5	011002-00-6	H314

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product mist or spray causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight fitting clothing such as a collar, tie, belt or waistband. Seek medical attention if symptoms persist.

Eyes: Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after the first 2 minutes and continue rinsing. Seek immediate medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing and continue rinsing for at least 15 minutes. Wash contaminated clothing and shoes thoroughly before reuse. If skin irritation persists, seek medical attention.

Ingestion: Rinse mouth with water if the victim is conscious. Remove dentures if any. Give 1 - 2 cupfuls of water or milk to drink if the victim is conscious, alert and able to swallow. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Obtain medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes severe eye irritation, burns and eye damage. Symptoms include redness, swelling, pain, tearing and blurred vision. May cause eye damage. The degree of injury depends on the product concentration and the duration of eye contact.

Skin: Causes skin irritation and burns. Symptoms include severe localized redness, itching, swelling and pain. The degree of injury depends on the solution concentration and the duration of contact with skin.

Inhalation: Mist or spray causes irritation of the nose, throat and respiratory tract. Symptoms may include burning sensation in the nose and mouth, sore throat, coughing, headache and shortness of breath.

Ingestion: Causes gastrointestinal irritation with nausea, abdominal pain, vomiting and diarrhea. Causes burns to the lips, mouth, throat, upper airway and digestive tract. May cause headache and dizziness. Harmful if swallowed.

Chronic: Preexisting disorders of the skin and respiratory system may be aggravated by exposure to this product. Prolonged and repeated skin exposure may result in drying or defatting of skin and dermatitis. 2-Butoxyethanol is a known animal carcinogen (refer to Section 11.2).

4.3 Indication of any immediate medical attention and special treatment needed

Advice to Doctor and Hospital Personnel: Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Use extinguishing media suitable for surrounding fire.

Unsuitable methods of extinction: None known

5.2 Special hazards arising from the substance or mixture

Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control runoff water to prevent environmental contamination.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Wear appropriate protective equipment and clothing designated in Section 8. Remove all sources of ignition. Ventilate the area. No smoking. Spill creates a slip hazard.

6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Cover drains and contain spill. Cover with a large quantity of inert absorbent. Do not use combustible material such as sawdust. Collect product and place into an approved containers for proper disposal. Rinse contaminated area with water. Dispose of via a licensed waste disposal contractor. Contaminated adsorbent material may pose the same hazard as spilled product.

6.4 Reference to other sections

For indications about waste treatment, see Section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear all appropriate protective clothing specified in Section 8. Keep containers closed when not in use. Do not get in eyes or on skin or clothing. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear appropriate respiratory protection.

Advice on protection against fire and explosion

No special precautions against fire and explosion are required.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10.5), food and drink. Keep from freezing. Transfer only to approved containers having correct labeling. Keep container tightly closed when not in use. Protect container against physical damage.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers of this material may be hazardous when empty as they contain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

CAS Number	Ingredient	OSHA PEL - TWA	ACGIH TLV	NIOSH
111-76-2	2-Butoxyethanol	50 ppm; 240 mg/m ³	50 ppm TWA; 100 mg/m ³ ceiling (aerosol only)	700 ppm
1310-58-3	Potassium Hydroxide	2 mg/m ³ , Ceiling (vacated)	2 mg/m ³ Ceiling	2 mg/m ³ Ceiling
1310-73-2	Sodium Hydroxide	2 mg/m ³	2 mg/m ³ Ceiling	2 mg/m ³ Ceiling

8.2 Exposure controls

Engineering Measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be confirmed with the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

Eye/face protection: Wear protective goggles or safety glasses with unperforated side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

Hand Protection: Wear gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Other protective equipment: Wear protective clothing. Wear protective boots if the situation requires.

Respiratory Protection: None required with normal use. Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls: Do not empty into drains.

PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear, violet colored liquid
Odor	Odorless
Odor Threshold	No data available
Molecular Weight	Not applicable
Chemical Formula	Not applicable
pH	12.9 - 13.1
Freezing/Melting Point, Range	<0 °C (<32 °F)
Initial Boiling Point	100 °C (212 °F)
Evaporation Rate	<1 (Water =1)
Flammability (solid, gas)	Not applicable
Flash Point	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Lower Explosive Limit (LEL)	Not determined
Upper Explosive Limit (UEL)	Not determined
Vapor Pressure	Not determined
Vapor Density	>1 (Air = 1)
Specific Gravity	1.0740 - 1.7050
Viscosity	<5 cps
Solubility in Water	Dispersible
Partition Coefficient: n-octanol/water	Not determined
Volatiles by Volume @ 20 °C	93 - 95%

9.2 Other data

No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

No special reactivity has been reported.

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Extreme temperatures; incompatible materials

10.5 Incompatible materials

Strong oxidizing agents, acids, bases, reducing agents

10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon, oxides of nitrogen, oxides of sodium, oxides of potassium, undefined hydrocarbons.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity

This product is expected to have low acute oral toxicity.

Acute inhalation toxicity

Product is expected to have low acute inhalation toxicity.

Acute dermal toxicity

Product is expected to have low acute dermal toxicity.

Skin corrosion/irritation

Causes severe skin irritation and burns.

Eye corrosion/irritation

Causes severe eye irritation, burns and serious eye damage.

Sensitization

No data available

Genotoxicity in vitro

No data available.

Mutagenicity

No data available

Specific organ toxicity - single exposure

No data available

Specific organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Further information

2-Butoxyethanol (CAS #111-76-2): IARC, Group 3 carcinogen - *Not classifiable as to its carcinogenicity to humans*. ACGIH, A3 Carcinogen - *Confirmed animal carcinogen with unknown relevance to humans*. Not listed as a carcinogen by NTP or OSHA.

No data is available regarding the mutagenicity or teratogenicity of this product, nor is there any available data that indicates that it causes adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

Large discharges of this product to the environment may increase the pH of aquatic systems to a value >11, which may be fatal to aquatic life and oil micro-organisms. 2-Butoxyethanol is harmful to algae or higher aquatic plants.

12.2 Persistence and degradability

Organic materials in this product are expected to biodegrade over time. Inorganic substances are not biodegradable. Methods for the determination of biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulation potential

Product is not expected to bioaccumulate.

12.4 Mobility

Expected to have high mobility in soil.

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Additional ecological information

Do not allow material to run into surface waters, wastewater or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material or runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: The classification of this product may meet the criteria for a hazardous waste.

SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

US DOT (Domestic Ground Transportation)

Proper Shipping Name: Corrosive liquid, n.o.s. (Potassium Hydroxide, Sodium Hydroxide)
Hazard Class: 8
UN/NA: UN1760
Packing Group: II
NAERG: Guide #154
Packaging Authorization: Non-Bulk: 49 CFR 173.202; Bulk: 173.242
Packaging Exceptions: 49 CFR 173.154

IMO/IMDG (Water Transportation)

Proper Shipping Name: Corrosive liquid, n.o.s. (Potassium Hydroxide, Sodium Hydroxide)
Hazard Class: 8
UN/NA: UN1760
Packing Group: II
Marine Pollutant: No
EMS Number: F-A, S-B

ICAO/IATA (Air Transportation)

Proper Shipping Name: Corrosive liquid, n.o.s. (Potassium Hydroxide, Sodium Hydroxide)
Hazard Class: 8
UN/NA: UN1760
Packing Group: II
Quantity Limitations: 49 CFR 175.27 and 175.75 - Cargo Aircraft Only: 30 l; Passenger Aircraft: 1 l

RID/ADR (Rail Transportation)

Proper Shipping Name: Corrosive liquid, n.o.s. (Potassium Hydroxide, Sodium Hydroxide)
Hazard Class: 8
UN/NA: UN1760
Packing Group: II



SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CFR 1910-1200.

OSHA Process Safety Management Standard: The chemicals in this product are not regulated under OSHA PSM Standard 29 CFR 1910.119.

EPA Risk Management Planning Standard: The chemicals in this product are not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

EPA Federal Insecticide, Fungicide and Rodenticide Act: This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

TSCA Status: All components of this product for which regulatory data was available are listed on the Toxic Substance Control Act (TSCA) Inventory. This product is not subject to TSCA 12(b) Export Notification.

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: Acute Health Hazard, Chronic Health Hazard

SARA 313 Information: 2-Butoxyethanol (CAS #111-76-2) is subject to the reporting levels established by Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains the following CERCLA reportable substances:

Potassium Hydroxide (CAS #1310-58-3), RQ - 454 kg (1,000 lbs)

Sodium Hydroxide (CAS #1310-73-2), RQ - 453.6 kg (1,000 lbs)

Clean Air Act (CAA)

This product does not contain any chemicals listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depleters.

This product does not contain any Class 2 Ozone depleters.

Clean Water Act (CWA)

Sodium Hydroxide (CAS #1310-73-2) and Potassium Hydroxide (CAS #1310-58-3) are listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

This product contains trace amounts of chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

Other U.S. State Inventories

2-Butoxyethanol (CAS #111-76-2) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, ID, MA, MN, NJ, PA, RI, WA, WI.

Potassium Hydroxide (CAS #1310-58-3) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, DE, ID, MA, NJ, NY, PA, RI, WA, WI.

Sodium Hydroxide (CAS #1310-73-2) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants List(s): CA, DE, ID, MA, MN, NJ, PA, RI, WA, WI.

Canada

WHMIS Hazard Symbol and Classification:



E - Corrosive to skin

Canadian National Pollutant Release Inventory (NPRI): 2-Butoxyethanol and Potassium Hydroxide are listed on the NPRI.

European Economic Community

Labeling (67/548/EEC or 1999/45/EC)



C - Corrosive

Risk Phrases: R35 - Causes severe burns.

Safety Phrases: S1/2 - Keep locked up and out of the reach of children.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 - Wear suitable gloves and eye/face protection.

WGK, Germany (Water danger/protection): 1

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

Health	* 2
Flammability	0
Physical Hazard	0
Personal Protection	C

HMIS Hazard Rating Legend

* = Chronic Health Hazard 2 = MODERATE
0 = INSIGNIFICANT 3 = HIGH
1 = SLIGHT 4 = EXTREME



Safety Glasses



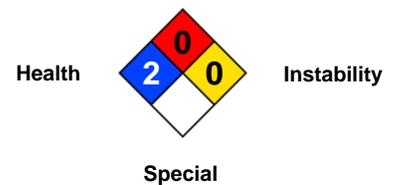
Gloves



Protective Apron

National Fire Protection Association (NFPA)

Flammability



Full text of GHS Hazard Phrases referenced in Section 3 (not covered in Section 2)

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H315 - Irritating to skin

H319 - Causes serious eye damage

H332 - Harmful if inhaled

H370 - Causes damage to the central nervous system and optic nerve

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Version 3