# AIKEN CHEMICAL COMPANY, INC.
# Safety Data Sheet
# Purple Power Driveway & Concrete Cleaner

## SECTION 1: Identification

### 1.1 Product identifier

| | |
|---|---|
| Product name | Driveway & Concrete Cleaner |
| Product number | 3520P, 3525P, 3540 |
| Brand | Purple Power |

### 1.3 Recommended use of the chemical and restrictions on use

Degreasing and cleaning concrete.

### 1.4 Supplier's details

| | |
|---|---|
| Name | Aiken Chemical Company, Inc. |
| Address | P.O. Box 27147<br>Greenville, SC 29616<br>USA |
| Telephone | 864-968-1250 |
| Fax | 864-968-1252 |
| email | donnie@clean-rite.com |

### 1.5 Emergency phone number(s)

800-424-9300

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

- Serious eye damage/eye irritation Cat. 1
- Skin corrosion/irritation Cat. 1

### 2.2 GHS label elements, including precautionary statements

**Pictogram**

**Signal word** **Danger**

**Hazard statement(s)**

| | |
|---|---|
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |

**Precautionary statement(s)**

| | |
|---|---|
| P260 | Do not breathe mist or spray. |
| P264 | Wash hands thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P363 | Wash contaminated clothing before reuse. |
| P405 | Store locked up. |

| | |
|---|---|
| P501 | Dispose of contents/container in accordance with all applicable federal, state and local regulations. Contact your federal, state and local authorities for specific rules. |

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Hazardous components**

**1. Sodium Hydroxide**
Concentration 1 - 5 % (weight)
CAS no. 1310-73-2

**2. Silicic acid sodium salt**
Concentration 1 - 5 % (weight)
CAS no. 1344-09-8

**3. Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-**
Concentration 1 - 5 % (weight)
CAS no. 160875-66-1

**4. Diethylene Glycol Monobutyl ether**
Concentration 1 - 10 % (weight)
CAS no. 112-34-5

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

| | |
|---|---|
| General advice | Consult a physician/doctor if necessary. Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Show this material safety data sheet to the doctor in attendance. |
| If inhaled | Move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| In case of skin contact | Immediately flush skin with plenty of water for at least 15 minutes. Removing contaminated clothing and shoes. Wash clothing before reuse. Chemical burns must be treated promptly by a physician. Get medical attention immediately. |
| In case of eye contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital. |
| If swallowed | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| Personal protective equipment for first-aid responders | First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment. |

### 4.2 Most important symptoms/effects, acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**
Effects are dependent on exposure (dose, concentration, contact time). Effects are immediate and delayed. Symptoms may include irritation, burns, and pain. Causes skin irritation and eye irritation. Review section 2 of SDS to see all potential hazards.

## SECTION 5: Fire-fighting measures

**5.1 Suitable extinguishing media**
Use extinguishing media appropriate for surrounding fire.

**5.2 Specific hazards arising from the chemical**
This material will not burn until the water has evaporated. Residue can burn.

**5.3 Special protective actions for fire-fighters**
Fire fighters should enter area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms, and waist, should be worn. No skin surfaces should be exposed.

**Further information**
Slipping hazard if product is spilled on the floor.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

**6.2 Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**
SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

**Reference to other sections**
For disposal see section 13.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Specific end use(s)**
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**

**1. Sodium hydroxide (CAS: 1310-73-2)**
PEL (Inhalation): 2 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): (C) 2 mg/m3 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): (C) 2 mg/m3 (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

**2. Diethylene Glycol Monobutyl ether (CAS: 112-34-5)**
PEL (Inhalation) (ACGIH)
TWA: 10 ppm (ACGIH)

**8.2 Appropriate engineering controls**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**8.3 Individual protection measures, such as personal protective equipment (PPE)**

**Pictograms**

**Eye/face protection**
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US)

**Skin protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body protection**
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Use with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

**Environmental exposure controls**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance/form (physical state, color, etc.) | Yellow liquid with Characteristic odor |
| Odor | No data available. |
| Odor threshold | No data available. |
| pH | 12 - 13 |
| Melting point/freezing point | -2℃ (~28.4℉) |
| Initial boiling point and boiling range | ~100℃ (~212℉) |
| Flash point | No data available. |
| Evaporation rate | (Butyl Acetate= 1) : <1.0 |
| Flammability (solid, gas) | No data available. |
| Upper/lower flammability limits | No data available. |
| Upper/lower explosive limits | No data available. |
| Vapor pressure | No data available. |

| | |
|---|---|
| Vapor density | No data available. |
| Relative density | 1.02 |
| Solubility(ies) | Complete in Water |
| Partition coefficient: n-octanol/water | No data available. |
| Auto-ignition temperature | No data available. |
| Decomposition temperature | No data available. |
| Viscosity | No data available. |
| Explosive properties | No data available. |
| Oxidizing properties | No data available. |

**Other safety information**
VOC content, wt. % < 0.2

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
Reacts with aluminum, minerals, and acids.

**10.2 Chemical stability**
Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**
Polymerization will not occur.

**10.4 Conditions to avoid**
Avoid contact with: Oxidizers. Strong acids.

**10.5 Incompatible materials**
Avoid contact with: Oxidizers. Strong acids.

## SECTION 11: Toxicological information

**Information on toxicological effects**

**Acute toxicity**
**All data is collected from supplier SDS's or historical data. Aiken Chemical Co. performs no animal testing.**
Product:
Not classified.
---
Ingredients:
Sodium Hydroxide 25%: The components of this material have been reviewed in various sources and the following selected endpoints are published:
Sodium Hydroxide(1310-73-2) Oral LD50 Rat 140-340 mg/kg; Dermal LD50 Rabbit 1350 mg/kg
---
Sodium Silicate Solution: Oral ID50 (Rat); 3400 mg/kg
---
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Slightly toxic after single ingestion.
LD50 judged > 500 mg/kg based on deaths at 200 mg/kg (0/6) and 2000 mg/kg (2/3) plus oral LD50 data on surrogate chemicals.
---
Diethylene Glycol Monobutyl ether: Acute oral toxicity : Based on acute toxicity values, not classified.
LD50: 2,410 mg/kg Species: Mouse Acute inhalation toxicity : Based on acute toxicity values, not classified.
LC50: > 2.1 mg/l Exposure time: 4 HOURS Species: Rat Acute dermal toxicity : Based on acute toxicity values, not classified.
LD50: 2,764 mg/kg Species: Rabbit Skin corrosion/irritation : Based on skin irritation values, not classified.

**Skin corrosion/irritation**
Product:
Skin corrosion/irritation category 1

---
Ingredients:
Sodium Hydroxide 25%: Severely corrosive to the skin. Causes severe burns.
---
Sodium Silicate Solution: Irritation/burns of skin
---
Diethylene Glycol Monobutyl ether: May cause slight transient skin irritation.

**Serious eye damage/irritation**
Product:
damage/eye irritation category 1
---
Ingredients:
Sodium Hydroxide 25%: Severely corrosive to the eyes. Causes eye burns. Direct contact with the eyes can cause irreversible damage, including blindness.
---
Sodium Silicate Solution: Irritation/burns of eyes
---
Diethylene Glycol Monobutyl ether: Causes serious eye irritation.
---
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Species: rabbit
Result: Risk of serious damage to eyes. Method: OECD Guideline 405

**Respiratory or skin sensitization**
Product:
Not classified
---
Ingredients:
Sodium Hydroxide 25%: Not sensitizing
---
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Skin sensitizing effects were not observed in animal studies.
---
Diethylene Glycol Monobutyl ether: Not classified

**Germ cell mutagenicity**
Program:
Not Classified
---
Product:
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: No data available.
---
Diethylene Glycol Monobutyl ether: Not classified

**Carcinogenicity**
Product:
Not classified.
---
Ingredient:
Sodium Hydroxide 25%: NTP Not listed. IARC Not listed. OSHA Not listed.
---
Sodium Silicate Solution: Not listed by IARC. NTP, OSHA, ACGIH.
---
Diethylene Glycol Monobutyl ether: Contains a substance that has a positive carcinogenicity study. The weight of evidence for the carcinogenicity of this substance does not meet the criteria for classification.
---
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Assessment of carcinogenicity: Based on the structure there is no suspicion of a carcinogenic effect.

**Reproductive toxicity**

Product:
Not classified
Ingredient:
Sodium Hydroxide 25%: No known reproductive toxicity, mutagenic or teratogenic effects in animal experiments are known.
---
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Assessment of reproduction toxicity: Based on the ingredients, there is no suspicion of a toxic effect on reproduction.
---
Diethylene Glycol Monobutyl ether: Not classified

**Summary of evaluation of the CMR properties**
Not classified

**STOT-single exposure**
Product:
Not classified.
---
Ingredients:
Diethylene Glycol Monobutyl ether: Classified, May cause drowsiness or dizziness.

**STOT-repeated exposure**
Product:
Not classified.
---
Ingredients:
Diethylene Glycol Monobutyl ether: Not classified

**Aspiration hazard**
Product:
Not classified.
---
Ingredients:
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: No aspiration hazard expected.
---
Diethylene Glycol Monobutyl ether: Not classified

## SECTION 12: Ecological information

**Toxicity**
Sodium Hydroxide, Pellets: Sodium Hydroxide, Pellets
LC50 - Gambusia affinis (mosquito fish) - 125 mg/l - - 96 h
Sodium Hydroxide, Pellets
LC50 - Oncorhynchus mykiss (rainbow trout) - 45.4 mg/l - 96 h
Sodium Hydroxide, Pellets
EC50 - Daphnia magna (water flea) - 40.38 mg/l - 48 h
---
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: EC50 (48 h) > 10 - 100 mg/l, Daphnia magna
Analogous: Assessment derived from products with similar chemical character.
EC50 (72 h) > 10 - 100 mg/l, Scenedesmus subspicatus
Analogous: Assessment derived from products with similar chemical character.
---
Diethylene Glycol Monobutyl ether: Low acute toxicity to fish; Low acute toxicity to aquatic invertebrates; Low toxicity to algae; Low toxicity to sewage microbes. Based on acute aquatic toxicity values, not classified.

**Persistence and degradability**
Product:
No information available
---

Ingredients:
Sodium Hydroxide 25%: No information available
---
Sodium Silicate Solution: Will biodegrade readily
---
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Analogous: Assessment derived from products with similar chemical character.
> 60 % $CO_2$ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Readily biodegradable.
---
Diethylene Glycol Monobutyl ether: Biodegradability: 92 %
Rapidly degradable. (After 28 days in a ready biodegradability test)

**Bioaccumulative potential**
Product:
Not expected to bioaccumulate.
---
Ingredients:
Sodium Hydroxide 25%: This product is not expected to bioaccumulate.
---
Sodium Silicate Solution: Unlikely
---
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Accumulation in organisms is not to be expected.
---
Diethylene Glycol Monobutyl ether: Bioconcentration factor (BCF): 1.4 - 3.2 Method: (QSAR calculated value) This material is not expected to bioaccumulate.

**Mobility in soil**
Product:
Not expected to hydrolyze readily
---
Ingredients:
Sodium Hydroxide 25%: No information available.
---
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is possible.
---
Diethylene Glycol Monobutyl ether: Stability in soil no data available Low absorption to soil particulates predicted : Stability in water Not expected to hydrolyze readily.

**Results of PBT and vPvB assessment**
Product:
Not applicable
---
Ingredients:
Diethylene Glycol Monobutyl ether: Not applicable.

**Other adverse effects**
No data available.

## SECTION 13: Disposal considerations

**Disposal of the product**
Dispose in accordance with all applicable federal, state and local regulation. Contact your federal, state and local authorities for specific rules.

**Disposal of contaminated packaging**
Dispose of as unused product.

## SECTION 14: Transport information

**DOT (US)**
UN Number: UN1760
Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide)
Class 8: Corrosive liquid
Packing Group: II

**IMDG**
UN Number: UN1760
Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide)
Class 8: Corrosive liquid
Packing Group: II

**IATA**
UN Number: UN1760
Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide)
Class 8: Corrosive liquid
Packing Group: II

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

**California Prop. 65 Components**
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Massachusetts Right To Know Components**
Sodium Hydroxide CAS# 1310-73-2
2-Butoxyethanol CAS# 111-76-2
Sodium sulfate CAS# 7757-82-6

**New Jersey Right To Know Components**
Sodium Hydroxide CAS# 1310-73-2
2-Butoxyethanol CAS# 111-76-2

**Pennsylvania Right To Know Components**
Sodium Hydroxide CAS# 1310-73-2
2-Butoxyethanol CAS# 111-76-2
Sodium sulfate CAS# 7757-82-6

**SARA 302 Components**
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 311/312 Hazards**
Acute (immediate) health effects: Yes
Chronic (delayed) health effects: No
Sudden release of pressure hazard: No
Reactivity hazard: Yes
Fire hazard: No

**SARA 313 Components**
This product contains the following chemicals subject to the reporting requirements of SARA Title III, Section 313 and 40 CFR 372: Component Reporting Threshold Diethylene glycol monobutyl ether 1.0% 2-Butoxyethanol 1.0%

**Toxic Substances Control Act (TSCA) Inventory**
All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.

### 15.2 Chemical Safety Assessment

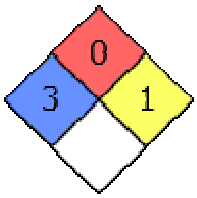
NFPA (National Fire Protection Association)
HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

**HMIS Rating**

| Driveway & Concrete Cleaner | |
|---|---|
| HEALTH | 3 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 1 |
| PERSONAL PROTECTION | D |

**NFPA Rating**




## SECTION 16: Other information

Abbreviations, acronyms
ACGIH = American Conference of Governmental Industrial Hygienists
bw = body weight
bw/day = body weight/day
EC x = Effect Concentration associated with x% response
GLP = Good Laboratory Practice
IARC = International Agency for Research of Cancer
LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one
half) of a group of test animals
LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals
LL = Lethal Loading
NIOSH = National Institute of Occupational Safety and Health
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
NOEL = No Observed Effect Level
OECD = Organization for Economic Co-operation and Development
OSHA = Occupational Safety and Health Administration
UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material
fw = fresh water
mw = marine water
or = occasional release
dw = dry weight
SCBA = Self Contained Breathing Apparatus
Legend
Section 8
ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH - National Institute for Occupational Safety and Health
TLV - Threshold Limit Values
PEL - Permissible Exposure Limits
IDHL - Immediately Dangerous to Life or Health concentrations
TWA - Time Weight Average
STEL - Short Term Exposure Limits
S* - Skin notation
TSCA - Toxic Substance Control Act

**16.1 Further information/disclaimer**

The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship. Safety Data Sheet information is based on the individual ingredients Safety Data Sheets provided by the supplier.

**16.2 Preparation information**

Aiken Chemical Company, Inc.
P.O. Box 27147
Greenville, SC, 29616
864-968-1250
800-828-1860
864-968-1252 (fax)