SAFETY DATA SHEET

Purple Power Driveway & Concrete Cleaner

Section 1: Product and Company Identification:

Product Name: Purple Power Driveway & Concrete Cleaner
Product Use: Cleaner
Part's: 3515PS, 3520P, 3525P, 3540
Manufacture/Supplier: Aiken Chemical Company
P.O Box 27147, Greenville, SC 29616
12 Shelter Drive, Greer, SC 29650
Phone Number: (864) 968-1250
1-800-828-1860
Emergency Phone: 1-800-424-9300
Date of Preparation: February 2, 2015

Section 2: Hazards Identification:

Emergency Overview:

Hazard Determination System (HDS): Health, Flammability, Reactivity

Danger: Causes Eye and Skin Burns. Harmful if Absorbed Through Skin and May Be Fatal if Swallowed.

Note: SDS data pertains to the product as delivered in the original shipping container. Risk of adverse effects is lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

Eye: Causes eye burns. Direct contact with the eyes can cause irreversible damage, including blindness

Skin: Skin contact may produce burns. Harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

Ingestion: May be fatal if swallowed. May cause burns to mouth, throat and stomach.

Inhalation: Inhalation of the spray or mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Inhalation of high concentrations of vapor may affect the central nervous system.

Chronic Effects: Contains material which may cause damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, skin, eyes, central nervous system (CNS). Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness. Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation.

Carcinogenicity: Ingredients not listed as carcinogen by OSHA, NTP or IARC.

Section 3: Composition / Information on Ingredients:

Ingredient:	CAS#	Percent
Sodium Hydroxide; caustic soda; soda lye:	1310-73-2	1-5
Diethylene glycol monobutyl ether:	112-34-5	1-5
Sodium Xylene Sulphonate (SXS):	1300-72-7	1-5

Section 4: First Aid Measures:

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Chemical burns must be treated promptly by a physician. Get medical attention immediately.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5: Fire Fighting Measures:

Flash Point: None

Flammable Limits: Not Applicable

Flammability: Non-Combustible

Fire hazard: May decompose to form toxic/corrosive gases

Fire-Fighting Procedures: Use an extinguishing agent suitable for the surrounding fire. Fire-fighters should wear appropriate protective equipment.

Section 6: Accidental Release Measures:

Personal Precautions: Use personal protection recommended in section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental Precautions: Not Available

Methods for Containment: Contain and/or absorb spill with inert material, (e.g. sand, vermiculite), then place in a suitable container. Use appropriate Personal Protective Equipment, (PPE).

Methods for Clean-up: Scoop up material and place in a disposal container. Provide ventilation.

Other Information: Not Available

Section 7: Handling and Storage:

Handling: Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using, do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage: Do not store in aluminum, copper, or galvanized containers. Separate from acids, reactive metals, and ammonium salts.

Section 8: Exposure Controls/Personal Protections:

Exposure Guidelines:

Ingredient	Exposure Limits	
	OSHA-PEL	**ACGIH-TLV**
Sodium Hydroxide, Caustic soda, Soda lye:	TWA: 2mg/m^3	CEIL: 2mg/m^3
Diethylene glycol monobutyl ether:	Not Available	Not Available
Sodium Xylenesulphonate (SXS):	Not Available	Not Available

Engineering Controls: Use Ventilation adequate to keep exposures, (airborne levels of dust, fume, vapor, etc.), below recommended exposure limits.

Personal Protective Equipment:

Eye/Face Protection:	Wear chemical safety glasses with side shields and/or face shield.
Hand Protection:	Wear suitable gloves, (Neoprene, Nitrile Rubber, and Polyethylene).
Skin and Body Protection:	Wear Suitable protective clothing, (Wear body-covering, impervious clothing, chemical resistant gloves and boots.
Respiratory:	Use with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
General Hygiene Considerations:	Handle according to established industrial hygiene and safety practices.

Section 9: Physical and Chemical Properties:

Appearance and Odor:	Yellow liquid with Characteristic odor
Physical State:	Liquid
pH:	12.5 – 13.5
Freezing Point:	~2°C (~28.4°F)
Boiling Point:	~100°C (~212°F)
Flash Point (Method Used):	>200°F (PMCC)
Evaporation Rate (Butyl Acetate= 1) :	<1.0
LEL:	Not Determined
UEL:	Not Determined
Vapor Pressure (mm Hg.):	Not Determined
Vapor Density (AIR=1):	Not Determined
Specific Gravity:	1.02
Solubility in Water:	Complete
Melting Point:	NA
Auto-Ignition Temperature:	Not Determined
Percent Volatile, wt%:	Not Determined
VOC content, wt. %	< 0.2

Section 10: Stability and Reactivity:

Stability:	Stable under normal storage conditions.
Conditions to Avoid:	Mixing or blending with oxidizing or low pH solutions
Incompatibility (Materials to Avoid):	Avoid contact with reactive metals, strong mineral acids and organic acids.
Hazardous Decomposition or Byproducts:	Carbon dioxide, carbon monoxide, various hydrocarbons and can include aldehydes, ketones, organic acids and other organics.
Hazardous Polymenzation:	Will Not Occur.

Section 11: Toxicology Information:

Note: Toxicology information reported from ingredient MSDS:

Effects of Acute Exposure

Component Analysis: Routes of entry: Eye, Skin, Ingestion, and Inhalation.

Acute Toxicity/Effects:

Sodium Hydroxide:

Inhalation LC_{50}: no data; Oral (rat) LD_{50} believed to be 300 – 500 $^{mg}/_{kg}$ – harmful if swallowed. Dermal (rabbit) LD50 Delivered to > 2 $^{mg}/_{kg}$: Irritation: Causes burns to eyes and skin. This ingredient is corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous membranes and respiratory tract. There are no known or reported effects from repeated exposure except that secondary to burns. There are no known or reported effects on reproductive function or fetal development from exposure to this product. This ingredient is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

Effects, Acute Exposure:

Diethylene glycol monobutyl ether:

Skin Contact: May be slightly irritating; Skin Absorption: Toxic effects unlikely by this route unless contact is extensive in area and prolonged; Eye Contact: likely to be severely irritating (by animal testing). Inhalation: headache, dizziness, intoxication possible, low vapor pressure makes this unlikely. Ingestion: headache, dizziness, intoxication; In severe

cases, cyanosis (blue coloring), low blood pressure, & unconsciousness Effects, Chronic Exposure: General: little to no effect reported Sensitizing: Not a sensitizer in humans or animals Carcinogen/Tumorigen: Not considered a Tumorigen or a carcinogen in humans or animals. Reproductive Effect: No known effect in humans or animals Mutagen: No known effect on humans or animals Synergistic With: Not Known LD50 (oral): 4500 to 9625 $^{mg}/_{kg}$ (rat), 2400 to 525 $^{mg}/_{kg}$ (mouse), 1720 to 2310 $^{mg}/_{kg}$ (guinea pig), and 200 $^{mg}/_{kg}$ (rabbit) LD50 (skin):2700mg/kg (rabbit) LC_{50} (inhalation): none – exposure of rats to DB vapor (saturated at 100 °C & cooled to room temp.) for 7hrs caused no mortality or other adverse symptoms.

Effects, Acute Exposure:

Sodium Xylene Sulphonate (SXS):

Acute Dermal LD_{50} (rabbit) > 2000 $^{mg}/_{kg}$; acute oral LD_{50} (rat) 7200 $^{mg}/_{kg}$. Sensitization: not classified. Acute effects: May be harmful in contact with skin. Local effects: irritating to eyes. Carcinogenicity: this Ingredient is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Skin corrosion/irritation: Causes skin irritation. Mutagenicity: No data available to indicate Ingredient or any components present at greater than 0.1% are mutagenic or genotoxic. Reproductive effects: This Ingredient is not expected to cause reproductive or developmental effects.

Section 12: Ecological Information:

Note: Ecological information reported from ingredient MSDS:

Sodium Hydroxide; caustic soda; soda lye:

Aqua Toxicity: This ingredient is not lethal to fully developed fish in natural fresh waters until pH becomes > 9. Lethal pH for Gold Fish: 10.9; lethal pH for Bluegill sunfish: 10.5. Biodegradability: Not biodegradable (Biodegradability term pertains to an organic material capable of decomposition as a result of attack by microorganisms). However, sodium hydroxide will be neutralized by acidity present in natural environment.

Diethylene glycol monobutyl ether:

Bioaccumulation: rapidly eliminated from the body; not a bioaccumulator. Biodegradation: biodegrades readily in presence of oxygen; 47% to 88% (several 28-day tests, different procedures); 66% & 85% in 28 days; other test show 100% biodegradability in 6-9 days. Abiotic Degradation: reacts with atmospheric hydroxyl radicals; estimated ½-life in air is 7hrs and 11 hrs. Mobility in soil, water: water soluble; moves readily and rapidly in soil and water. Aquatic Toxicity; LC_{20} (fish, 96hr); 1300 $^{mg}/_{l}$ (Lepomis macrochirus), 2000 $^{mg}/_{l}$ (Menidia beryllina), 1805 – 2300 and 2700 $^{mg}/_{l}$ (Leuciscus idus, 48hr), 1150 $^{mg}/_{l}$ (Poecilia reticulate, 168hr) EC_{50} (Crustacea, 24 hr) 2850 – 3300 $^{mg}/_{l}$ (Daphnia magna, various tests); EC_3 (Algae) 53 $^{mg}/_{l}$ (Microcystis aeruginosa), 1000 $^{mg}/_{l}$ (Scenedesmus quadricauda); EC_{10} (Bacteria): 1170 $^{mg}/_{l}$ (Pseudomonas putida).

Sodium Xylene Sulphonate (SXS):

EC_{50} Algae: >= 230 $^{mg}/_{kg}$ 72 hours EC_{50} Daphnia: >= 1000 $^{mg}/_{l}$ 48 hours LC_{50} Fish: >= 1000 $^{mg}/_{l}$ 96 hours Persistence/degradability readily biodegradable. Bioaccumulation/Accumulation No data available; Mobility in environmental media No data available for this product

Section 13: Disposal Considerations:

Disposal Instructions: This material must be disposed of in accordance with all local, state, and federal regulations.

Section 14: Transportation Information:

DOT, TDG, IMDG Classification:

UN Number:	UN1760
Proper Shipping Name:	Corrosive liquid, n.o.s. (Sodium Hydroxide) or Consumer commodity ORM-D in Limited quantity
Class:	8
Packing Group:	II
Label:	

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

Section 15: Regulatory Information:

Chemical Inventories:

TSCA: All components of this product are either on the TSCA Inventory or otherwise exempt from listing.

SARA Section 313: Toxic Release Inventory Chemical: Diethylene glycol monobutyl ether
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: Sodium Hydroxide; Potassium Hydroxide
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

California Safe Drinking Water Enforcement Act (Prop 65): This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Pennsylvania (Worker and Community Right-to-Know act):

Pennsylvania Special Hazardous Substance List and/or Pennsylvania Environmental Hazardous Substance list: To the best of our knowledge, this product does not contain chemicals that require reporting under this statute.

New Jersey Right-to-Know Hazardous Substance List: To the best of our knowledge, this product does not contain chemicals that require reporting under this statute

Massachusetts Substance List: To the best of our knowledge, this product does not contain chemicals that require reporting under this statute.

Section 16: Other Information:

NFPA	**Health Hazard**	**Flammability**	**Instability**	**Physical and**	**Chemical Hazards**
		3	0	0	COR
HMIS	**Health Hazard**	**Flammability**	**Physical Hazard**	**Personal Protection**	
		3	0	0	D

Prepared By: Aiken Chemical
12 Shelter Drive
Greer, SC 29650

Preparation/Revision Date: April 30, 2015

Revision Date:

General Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.