SAFETY DATA SHEET
OptiBlend #5 Heavy Duty Degreaser

SECTION1: PRODUCT & COMPANY INDENTIFICATION

DATE: 02/06/2015 **/ Supersedes Revision:** n/a

Manufacturer:
PDQ Manufacturing, Inc.
201 Victory Circle
Ellijay, GA USA 30540
Phone: (706) 636-1848
Website: www.pdqonline.com

EMERGENCY CONTACT: Chemtrec, Reference CCN203605
Phone: (800) 424-9300 (collect calls accepted) / International: (703) 527-3887

Product Name: OptiBlend #5 Heavy Duty Degreaser
ID Code: 4093
Product Category: Alkaline Detergent

SECTION 2: HAZARD(S) IDENTIFCATION

Acute Toxicity: Oral, Category 4
Acute Toxicity: Skin, Category 4
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Acute Toxicity: Inhalation, Category 4
Skin Corrosion/Irritation, Category 1A
Skin Corrosion/Irritation, Category 1B
Skin Corrosion/Irritation, Category 1C

GHS Signal Word: DANGER
GHS Hazard Phrases:
H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H314 - Causes severe skin burns and eye damage.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
GHS Precaution Phrases:
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
GHS Response Phrases:
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352 - IF ON SKIN: Wash with plenty of soap and water.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or physician for treatment advice. Have product container or label with you when calling poison control center or physician.
P310 - Immediately call a POISON CENTER or doctor/physician.
P330 - Rinse mouth.
P332+313 - If skin irritation occurs, get medical advise/attention.
P330 - Rinse mouth.
GHS Storage and Disposal Phrases:
P501 - Dispose of contents/container via locally approved methods.
P405 - Store locked up.

Hazard Rating System:

HMIS
Health: 2
Flammability: 0
Physical: 1
PPE: B

Potential Health Effects (Acute and Chronic): Prolonged or repeated skin contact may cause dermatitis. Chronic: None. May cause liver and kidney damage. Sophisticated modeling has clearly proven that 2-butoxyethanol does not build up in the body under any kinds of normal use. Effects may be delayed.
Inhalation: No hazard expected in normal industrial use. Harmful if inhaled. May cause respiratory tract irritation. May cause narcotic effects in high concentration. May cause lung damage. May cause anemia. May cause central nervous system effects such as nausea and headache. Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Causes chemical burns to the respiratory tract. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin Contact: Causes skin irritation. Harmful if absorbed through the skin. Substance is rapidly absorbed through the skin. Causes symptoms similar to those of inhalation. Skin sensitization testing with human volunteers produced negative results. A skin notation is not recommended by ACGIH, based on estimates from physiologically based pharmacokinetic models which indicate that, even in worst-case dermal-exposure scenarios, 2-butoxyethanol is not absorbed in amounts sufficient to cause red blood cell hemolysis in humans. Causes skin burns. May cause deep, penetrating ulcers of the skin. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.
Eye Contact: Causes eye irritation. Causes redness and pain. Causes eye burns. May cause chemical conjunctivitis and corneal damage.
Ingestion: No hazard expected in normal industrial use. Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract. May cause systemic effects. Causes burns.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
111-76-2	Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, Glycol Ether EB}	3.0 -7.0 %
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	1.0 -5.0 %
6834-92-0	Silicic acid (H2SiO3), Disodium salt	1.0 -3.0 %

SECTION 4: FIRST-AID MEASURES

Emergency and First Aid Procedures: Consult a physician. Show this safety data sheet to the doctor in attendance.
In Case of Inhalation: If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If inhaled, remove to fresh air. If breathed in, move person into fresh air.
In Case of Skin Contact: Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
In Case of Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
In Case of Ingestion: Get medical aid immediately. Call a poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
Signs and Symptoms Of Exposure: Burning sensation, Breathing dusts from the use of this product may be harmful. Wheezing, Laryngitis, Shortness of breath.
Note to Physician: None known.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: NP Method Used: Estimate
Explosive Limits: LEL: UEL:
Autoignition Pt: NP
Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Combustible liquid and vapor. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials. Contact with metals may evolve flammable hydrogen gas. Wear self contained breathing apparatus for fire fighting if necessary.
Flammable Properties and Hazards:

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Remove all sources of ignition. Do not let this chemical enter the environment. Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Do not get water on spilled substances or inside containers. Personal precautions. Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Environmental precautions. Do not let product enter drains. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions To Be Taken in Handling: Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks and flame. Do not ingest or inhale. Wash thoroughly after handling. Keep container tightly closed. Avoid ingestion and inhalation. Discard contaminated shoes. Use only with adequate ventilation.
Precautions To Be Taken in Storing: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area. Keep away from acids. Store protected from moisture. Containers must be tightly closed to prevent the conversion of NaOH to sodium carbonate by the CO2 in air. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
111-76-2	Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, Glycol Ether EB}	PEL: 50 ppm	TLV: 20 ppm	
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	PEL: 2 mg/m3	CEIL: 2 mg/m3	
6834-92-0	Silicic acid (H2SiO3), Disodium salt			

Respiratory Equipment (Specify Type): Respirator protection is not normally required. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Wear chemical splash goggles.
Protective Gloves: Wear appropriate protective gloves to prevent skin exposure. Handle with gloves.
Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.
Engineering Controls (Ventilation etc.): There are no special ventilation requirements. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [ ] Gas [X] Liquid [ ] Solid
Appearance and Odor: Clear dark brown liquid Solvent odor.
Melting Point:
Boiling Point:
Autoignition Pt: NP
Flash Pt: NP Method Used: Estimate
Explosive Limits: LEL: UEL:
Specific Gravity (Water = 1): ~ 1.05
Vapor Pressure (vs. Air or mm Hg):
Vapor Density (vs. Air = 1):
Evaporation Rate:
Solubility in Water: Complete
Viscosity: thin
pH: > 11.5
Percent Volatile:

SECTION 10: STABILITY AND REACTIVITY

Stability: Unstable [ ] Stable [X]
Conditions To Avoid - Instability: Incompatible materials. Avoid contact with acids, reducing agents, oxidizers, nitrogen oxides, amines, ammonia or other nitrogen containing compounds. contact with water.
Incompatibility – Materials To Avoid: Strong acids. Strong bases, Aluminum, Sulfur oxides. Metals. Acids, Zinc, gelatin, nitromethane, leather, flammable liquids, organic halogens. Lead. Tin/tin oxides.
Hazardous Decomposition Or Byproducts: Carbon monoxide, Toxic fumes of sodium oxide, formed under fire conditions. Sodium oxides, silicon oxides.
Possibility of Hazardous Reactions: Will occur [ ] Will not occur [X]
Conditions To Avoid -Hazardous Reactions:

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No data available. Reproductive Effects: Mutagenicity: Neurotoxicity: No information found. Teratogenicity: No information available. See actual entry in RTECS for complete information.
Irritation or Corrosion: Skin - rabbit - Severe skin irritation - -24 h.
Carcinogenicity/Other Information: CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 111-76-2: ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans. California: Not listed. NTP: Not listed. IARC: Not listed. CAS# 1310-73-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Carcinogenicity. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
111-76-2	Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, Glycol Ether EB}	n.a.	3	A3	n.a.
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	n.a.	n.a.	n.a.	n.a.
6834-92-0	Silicic acid (H2SiO3), Disodium salt	n.a.	n.a.	n.a.	n.a.

SECTION 12: ECOLOGICAL INFORMATION

General Ecological Information: Environmental: TERRESTRIAL FATE: Based on a recommended classification scheme, an estimated Koc value of 67,, determined from an experimental log Kow and a recommended regression-derived equation, indicates that ethylene glycol mono-n-butyl ether is expected to have high mobility in soil. An estimated BCF value of 2.5 was calculated for ethylene glycol mono-n-butyl ether, using an experimental log Kow of 0.83 and a recommended regression-derived equation. According to a recommended classification scheme, this BCF value suggests that bioconcentration in aquatic organisms is low. Physical: No information found. Other: An estimated BCF value of 2.5,, from an experimental log Kow, suggests that ethylene glycol mono-n-butyl ether bioconcentration in aquatic organisms will be low, according to a recommended classification scheme.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed. Product. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Contaminated packaging. Dispose of as unused product.

SECTION 14: TRANSPORTATION INFORMATION (DOT/UN CLASSIFICATION)

LAND TRANSPORT (US DOT):
DOT Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (contains sodium hydroxide)
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN3266
Packing Group: II
LAND TRANSPORT (Canadian TDG):
TDG Shipping Name:

SECTION 15: REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
111-76-2	Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, Glycol Ether EB}	No	No	Yes-Cat. N230
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	No	Yes 1000 LB	No
6834-92-0	Silicic acid (H2SiO3), Disodium salt	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
111-76-2	Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, Glycol Ether EB}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
6834-92-0	Silicic acid (H2SiO3), Disodium salt	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

SECTION 16: OTHER INFORMATION

Revision Date:02/06/2015
Preparer Name: Regulatory Affairs

Additional Information About This Product:

Company Policy or Disclaimer: The information contained in this Safety Data Sheet is provided pursuant to current OSHA regulations to convey information concerning the hazardous nature of the named product. The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.