

MATERIAL SAFETY DATA SHEET
Required under USDL Safety and Health Regulations

SECTION I - CHEMICAL COMPANY AND PRODUCT IDENTIFICATION

POWER SERVICE PRODUCTS, INC.

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**Product Name: DIESEL KLEEN PERFORMANCE IMPROVER
+CETANE BOOST 1:1500**
Synonyms: DIESEL FUEL ADDITIVE
Generic/Chemical Name: HYDROCARBONS, ORGANIC NITROGEN COMPOUNDS
MSDS Preparation Date: March 19, 2008 – supersedes July 24, 2007
Emergency Phone Number: Within USA 1-800-424-9300
Outside USA 001-703-527-3887 (Call Collect)

SECTION II- COMPOSITION/INFORMATION OF INGREDIENTS

<u>INGREDIENTS</u>	<u>PERCENT</u>
ORGANIC NITROGEN COMPOUNDS	40 - 60
HYDROCARBONS	20 - 40

This product is a proprietary complex mixture of Petroleum Hydrocarbons and Organic Nitrogen Compounds. Specific chemical information is being withheld as a Trade Secret. Specific chemical information will be made available to health professionals in accordance with 29 CFR 1910.1200.

SECTION III – SUMMARY OF HAZARDS

COMBUSTIBLE:

Causes irritation to respiratory tract. May undergo a self-accelerating, exothermic reaction if heated above 100°C/212°F. See “Other Health Effects”

HEALTH HAZARDS:

INHALATION: Causes irritation to the nose, throat, and lungs.

EYE CONTACT: Not expected to be an eye irritant.

SKIN CONTACT: Not expected to be a skin irritant.

INGESTION: Not expected to be acutely toxic.

OTHER HEALTH EFFECTS: Overexposure to organic nitrates by inhalation of vapor or skin contact may cause headache, dizziness, nausea, and decreased blood pressure.

TOXICITY DATA: ORAL LD50 (rat) 9640 mg/kg. DERMAL ID50 (rabbit) 4820 mg/kg.

EMERGENCY AND FIRST AID PROCEDURES: If overcome by vapors, remove from exposure immediately; call a physician. If breathing is irregular or stopped, start resuscitation, administer oxygen. If swallowed, do not induce vomiting; call a physician. Remove contaminated clothing and wash skin with soap and water. Flush eyes with water until irritation subsides.

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PRIMARY ROUTE (S) OF ENTRY: INGESTION AND INHALATION

VARIABILITY AMONG INDIVIDUALS: Health Studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists and fumes should be minimized.

NATURE OF HAZARD AND TOXICITY INFORMATION: Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis; however, based on human experiences and available toxicological data, this product is judged to be neither a “corrosive” nor an “irritant”.

Potential risk to humans can be minimized by observing good work practices and personal hygiene procedures generally recommended for petroleum products. The product has a low order of acute toxicity, but minute amounts aspirated into the lungs during ingestion may cause severe pulmonary injury or death.

SECTION IV - FIRST AID MEASURES

EYE CONTACT: Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT: Flush with large amounts of water, use soap if available. Remove grossly contaminated clothing, including shoes and launder before re-use.

INHALATION: Using proper respiration protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

INGESTION: If swallowed do not induce vomiting. Keep at rest. Get prompt medical attention.

SECTION V - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT140°F (TCC) Min. 60.0°C

FLAMMABLE LIMITS.....Not Established

EXTINGUISHING MEDIA: Alcohol resistant foam, dry chemical, CO₂, water spray or fog.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Includes oxides of carbon and nitrogen.

SPECIAL FIRE FIGHTING PROCEDURES: Use air-supplied rescue equipment for enclosed areas. Spray storage vessels with water to maintain temperature below 212°F.

UNUSUAL FIRE AND EXPLOSION HAZARDS: When heated above 100°C/212°F may undergo a self-accelerating exothermic reaction, which causes a rapid rise in temperature and pressure. Rupture of storage vessels and fire should be anticipated in case of such temperature.

EMPTY CONTAINERS CONTAIN FLAMMABLE VAPORS: “DO NOT USE CUTTING TORCH EQUIPMENT OR ANY OTHER FLAME ON ANY EMPTY CONTAINER”.

SECTION VI – ENVIRONMENTAL PROTECTION

SPILLS OR LEAKS: Remove all ignition sources. Keep people away. Recover free liquid. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Add absorbent to spill area. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May require excavation of contaminated soil.

DISPOSAL METHODS: Under CERCLA/RCRA regulations currently in effect, this material is regulated as a hazardous waste of material. Therefore, it must be disposed of in a “permitted” hazardous waste facility in compliance with EPA and /or other applicable local state and federal regulations. It should be handled in a manner acceptable to good waste management practices.

STORAGE REQUIREMENTS: Store in cool, dry, well-ventilated area away from sources of ignition. Keep containers closed when not in use.

SECTION VII - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep containers closed. Keep away from heat, sparks and open flames.

CONTAINERS ARE STRICTLY “SINGLE TRIP CONTAINERS.” THEY ARE NOT TO BE USED FOR ANY REASON AFTER BEING EMPTIED.

OTHER PRECAUTIONS: Avoid breathing vapors. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; wash before re-use. Wash skin with soap and water after contact.

SECTION VIII - EXPOSURE CONTROLS INFORMATION

EFFECTS OF OVEREXPOSURE: Avoid breathing vapor. Inhalation of high vapor concentrations may have results ranging from dizziness and headaches to unconsciousness. Prolonged or repeated liquid contact will dry and defat the skin leading to irritation and dermatitis. Irritating to respiratory system and may cause central nervous system depression, headaches and dizziness. Harmful if swallowed and may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

RESPIRATORY PROTECTION (Specify type): Organic or Hydrocarbon vapor respirator or supplied-air hose if needed.

VENTILATION:

- LOCAL EXHAUSTFace velocity > 60 fpm
- MECHANICAL (General)Explosion - proof ventilation equipment.
- SPECIALUse only with adequate ventilation.
- OTHERNo smoking or open flames.

PROTECTIVE GLOVES: Normally not needed. Use chemical resistant PVC coated gloves if necessary.

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EYE PROTECTION: Normally not needed, however Chemical Goggles, face shield or Safety glasses are recommended.

OTHER PROTECTION EQUIPMENT: Organic or Hydrocarbon insoluble apron if needed.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE (mmHG)..... 20 @ 68°F
SOLUBILITY IN WATER negligible
Density (lbs/gal)..... 7.8036
SPECIFIC GRAVITY (H2O =1)94
PERCENT, VOLATILE BY VOLUME (%) 100%
APPEARANCE brown

SECTION X - STABILITY AND REACTIVITY DATA

STABILITYUnstable at temperatures greater than 100°C/212°F.
HAZARDOUS DECOMPOSITION PRODUCTSWill not occur
HAZARDOUS POLYMERIZATIONWill not occur
CONDITIONS TO AVOID.....Temperatures above 100°C/212°F
MATERIALS TO AVOID Strong oxidizing and reducing agents

SECTION XI – REGULATORY INFORMATION

TSCA: This material is in compliance with the Toxic Substance Control Act (15 USC 2601- 2629)

Hazard categories for SARA 311/312 reporting are indicated below:

HEALTH: Immediate (Acute) yes
HEALTH: Delayed (Chronic) no
PHYSICAL: Fire yes
PHYSICAL: Sudden Release of Pressure... no
PHYSICAL: Reactive yes
Nuisance Mist/Duct Only..... no

SARA 313 INFORMATION

This product contains the following reportable chemicals that are subject to the reporting requirements of SARA 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Range %</u>
100-41-4	Ethylbenzene	4.00 – 8.00
1330-20-7	Xylene (mixed isomers)	2.00 – 4.00

The following components of this material are found on the regulatory list. – California Prop. 65, PA, NJ, MN RTK
Ethylbenzene and Xylene

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SECTION XII - TRANSPORTATION INFORMATION

Part #3841-04 – 96 ounce (cases)

Part #3850-01 – 2.5 gal. (cases)

Part #3855-01 – 55 gal. (drums)

Not regulated by the DOT

49CFR173.150(f)(1)(2)

I.D. NUMBER: **NOT REQUIRED**

PACKING GROUP: **NOT REQUIRED**

PLACARDING: **NOT REQUIRED**

Part #3860 – 260 gal. (totes)

PROPER SHIPPING NAME: **COMBUSTIBLE LIQUID, n.o.s. (Hydrocarbons)**

HAZARD CLASS: **COMBUSTIBLE LIQUID**

I.D. NUMBER: **NA1993**

PACKING GROUP: **III**

PLACARDING: **COMBUSTIBLE LIQUID**

IATA:

Part Number 3841 and 3850: Packaging not suitable to be shipped by Air.

IMDG:

PROPER SHIPPING NAME: **FLAMMABLE LIQUID, n.o.s. (Hydrocarbons)**
MARINE POLLUTANT(2-ethylhexyl nitrate)

HAZARD CLASS: **3**

I.D. NUMBER: **UN1993**

PACKING GROUP: **III**

PLACARDING: **FLAMMABLE LIQUID**

Part Number 3841 and 3850: Cases are not UN Approved

SECTION XIII - ECOLOGICAL INFORMATION

Not available

SECTION XIV - REGULATORY INFORMATION

RIGHT TO KNOW TIER II REPORTING INFORMATION SECTION 311-312

CHEMICAL DESCRIPTION: **HYDROCARBONS and ORGANIC NITROGEN COMPOUNDS**

COMMON (LABEL) NAME: **DIESEL KLEEN +CETANE BOOST**

TYPE OF PRODUCT: **SOLUTION - LIQUID**

PHYSICAL HAZARD: **FIRE**

HEALTH HAZARD: **IMMEDIATE (ACUTE)**

REACTIVITY: **NONE**

EXTREMELY HAZARDOUS SUBSTANCES: **NONE**

HMIS CLASSIFICATION:

HEALTH: 1

FLAMMABILITY: 2

REACTIVITY: 1