

MATERIAL SAFETY DATA SHEET
Required under USDL Safety and Health Regulations

SECTION I - CHEMICAL COMPANY AND PRODUCT IDENTIFICATION

POWER SERVICE PRODUCTS

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Product Name: ARCTIC EXPRESS BIODIESEL ANTIGEL 1:500
Synonyms: DIESEL FUEL ADDITIVE
Generic/Chemical Name: HYDROCARBONS, HYDROXY COMPOUNDS
MSDS Preparation Date: March 19, 2008 – supersedes March 23, 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>INGREDIENT</u>	<u>PERCENT</u>
HYDROCARBONS	50 - 80
HYDROXY COMPOUNDS	10 - 20

This product is a proprietary complex mixture of petroleum Hydrocarbons and Hydroxy 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 - HAZARD IDENTIFICATION

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.

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.

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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 laundry 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 POINT105°F (TCC) 40.6°C

FLAMMABLE LIMITS: lower2 upper7

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

SPECIAL FIRE FIGHTING PROCEDURES: Use air-supplied rescue equipment for enclosed areas. Cool exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Do not store or mix with strong oxidants or incompatible combustible liquids.

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

SECTION VI - ACCIDENTAL RELEASE PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all ignition sources. Keep people away. Recover free liquid. Add absorbent to spill area. Avoid breathing vapors. Ventilate enclosed spaces. Open all windows and doors. Keep petroleum products out of public sewers, streams and waterways.

WASTE DISPOSAL METHOD: Typical disposal is by supervised incineration in a furnace or in a chemical disposal area in compliance with Federal, State and Local Law.

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SECTION VII - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep containers closed. Keep away from heat, sparks and open flames. Store in cool, dry, well-ventilated area.

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 AND PERSONAL PROTECTION

	OSHA				ACGIH	
	TWA		STEL		TWA	
	PPM	MgM3	PPM	MgM3	PPM	MgM3
	400	1600	500	2000	450	1600
Carcinogen - NTP Program	N/A					
Carcinogen - IARC Program	N/A					

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.

RESPIRATORY PROTECTION (Specify type): NIOSH approved 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.

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

BOILING POINT	300°F
VAPOR PRESSURE (mmHG).....	2 @ 77°F
VAPOR DENSITY (AIR =1).....	>1
SOLUBILITY IN WATER	partial
SPECIFIC GRAVITY (H2O =1)92
PERCENT, VOLATILE BY VOLUME (%)	90
APPEARANCE	brown
ODOR	solvent

SECTION X - STABILITY AND REACTIVITY

STABILITY	Stable
INCOMPATIBILITY (Materials to avoid)	NONE
HAZARDOUS DECOMPOSITION PRODUCTS	Will not occur
HAZARDOUS POLYMERIZATION	Will not occur
CONDITIONS TO AVOID:	
1. Prolonged or repeated breathing of vapors	
2. Contact with eyes	
3. Prolonged or repeated contact with skin	

SECTION XI - TOXICOLOGICAL INFORMATION

This product contains the following chemicals that are subject to the reporting requirements of EPCRA Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372). Concentration does not exceed specified upper bound.

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Range %</u>
108-05-4	Vinyl acetate	0.1 – 0.3
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
Xylene

SECTION XII - ECOLOGICAL INFORMATION

Not available

SECTION XIII - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: This product, if discarded, may become a hazardous waste under CERCLA. Use the following information:

Proper Shipping Name: **RQ Waste Combustible Liquid, N.O.S. (Hydrocarbons)**
Class: **Combustible Liquid**
I.D. Number: **NA 1993**
Pk Group: **III**
RCRA WASTE Number: **D001**

Typical disposal is by supervised incineration in a furnace or in a chemical disposal area in compliance with Federal, State and Local Law.

SECTION XIV - TRANSPORTATION INFORMATION

Part #7450 – 2.5 gal. (cases),
Part #7455 – 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 #7460 – 260 gal. (totes),
Part #7400 – (bulk)
PROPER SHIPPING NAME: **COMBUSTIBLE LIQUID, N.O.S., (PETROLEUM HYDROCARBONS)**
HAZARD CLASS: **COMBUSTIBLE LIQUID**
I.D. NUMBER: **NA1993**
PACKING GROUP: **III**
PLACARDING: **COMBUSTIBLE LIQUID**

IATA:

Part Number 7450-02: Packaging not suitable to be shipped by Air.

IMDG:

PROPER SHIPPING NAME: **FLAMMABLE LIQUID, n.o.s. (Petroleum Hydrocarbons)**
HAZARD CLASS: **3**
I.D. NUMBER: **UN1993**
PACKING GROUP: **III**
PLACARDING: **FLAMMABLE LIQUID**
Part Number 7450-02: Cases are not UN Approved

SECTION XV - REGULATORY INFORMATION

RIGHT TO KNOW TIER II REPORTING INFORMATION SECTION 311-312

CHEMICAL DESCRIPTION: **HYDROCARBONS AND HYDROXY COMPOUNDS**
COMMON (LABEL) NAME: **ARCTIC EXPRESS BIODIESEL ANTIGEL**
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TYPE OF PRODUCT: **SOLUTION - LIQUID**

PHYSICAL HAZARD: **FIRE**
HEALTH HAZARD: **IMMEDIATE (ACUTE)**
REACTIVITY: **NONE**
EXTREMELY HAZARDOUS SUBSTANCES: **NONE**

NFPA RATING:
HEALTH: **2**
FIRE: **2**
REACTIVITY: **0**