MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY INFORMATION

Trade Name (as labeled): NOxBLUE Diesel Exhaust Fluid
Common Name: Diesel Exhaust Fluid, Urea Solution
Distributed By: CoreFluids, LLC
PO Box 1027
Arroyo Grande, CA 93421

Business Phone: (877) 245-5518

Emergency Phone: INFOTRAC – (800) 535-5053

Date of Preparation: December, 2009
Revised Nov. 2010

SECTION 2. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS #	% by weight
Urea	57-13-6	32.5
Water	7732-18-5	67.5

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Emergency Overview:

Caution
Eye and Skin Irritant

Symptoms Of Over Exposure:

Routes of exposure:	Eye, Skin contact, Inhalation, Ingestion
Eyes:	May cause irritation
Skin:	May cause irritation
Inhalation:	May cause irritation, May cause respiratory tract irritation
Ingestion:	May cause stomach distress, nausea or vomiting
Target Organs:	Eyes, skin and respiratory system.
Signs and symptoms:	May include redness, ederna, drying, cracking of the skin, Symptoms of exposure may be headache, dizziness, tiredness, nausea and vomiting.

Hazardous Material Information Rating System:

(0 = least; 1 = slight; 2 = moderate; 3 = high; 4 = extreme)

Health (blue)	**1**
Flammability (red)	**0**
Reactivity (yellow)	**0**

SECTION 4. FIRST-AID MEASURES

If Inhaled:	Remove to fresh air. If breathing becomes difficult, contact a medical physician. Give artificial respiration if victim is not breathing and obtain immediate medical attention.
If Ingested:	Call physician or Poison Control Center immediately for most current information. Dilute with large amounts of water. Do not induce vomiting unless directed to do so by a medical professional. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. If vomiting occurs, keep head lower than hips to prevent introduction of fluid into the lungs.
In Case Of Skin Contact:	Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if skin becomes irritated.
In Case Of Eye Contact:	Flush immediately with water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Call a physician if eye irritation persists.
Victims of chemical exposure and all rescuers must be taken for medical attention. Take a copy of label and MSDS to physician or health professional with victim.	

SECTION 5. FIRE-FIGHTING MEASURES

Flash Point:	Not flammable.
Test Method:	Not flammable.
LEL Flammable Limits:	Not flammable.
UEL Flammable Limits:	Not flammable.
Autoignition Temperature:	Not flammable.
Extinguishing Media:	Water spray, Foam, Carbon Dioxide, Dry-Chemical.
Unusual Fire and Explosion Hazards:	Avoid high temperatures that may cause thermal decomposition..
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus (SCBA) and goggles.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill And Leak Response: For small or incidental spills, the minimum personal protective equipment should be rubber gloves, rubber apron, and chemical goggles. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. Gas masks with ammonia canister or SCBA gear may be required. For large spills, contain by diking with soil, sand or other absorbent material such as vermiculite or diatomaceous earth. Keep material out of sewers, storm drains, and surface waters. Comply with all applicable government regulations on spill reporting, handling, and waste disposal.

SECTION 7. STORAGE AND HANDLING

Storage Practices: Store in areas away from children, feed and food products and sources of heat. Immediately clean up spills that occur during handling or storage. Protect from freezing keep containers closed when not in use. Optimal Storage Temperature 40 to 80°F.

Handling Practices: Keep away from incompatible materials. Do not breathe mists. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Wash with soap and water after handling.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation/Engineering Controls: Use with adequate ventilation to keep airborne levels below recommended exposure limits.
Respiratory Protection: If work conditions generate vapors or mist, wear a NIOSH approved respirator appropriate for those emission levels. Appropriate respirator may be a full face piece respirator, an SCBA in the pressure demand mode, or a supplied-air respirator.
Eye Protection: Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, contact lenses should not be worn when working with chemicals because they contribute to the severity of an eye injury.
Hand Protection: Rubber gloves with gauntlets.
Body Protection: Use body protection appropriate for task. Chemical-resistant coveralls and rubber aprons are generally acceptable.
Other Protective Measures: An eyewash and safety shower should be nearby and ready for use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless Liquid	**Boiling Point:**	104 °C
Odor:	Very slight ammonia odor	**Freezing Point:**	-12 °C
pH:	9.8 to 10.0		
Water Solubility:	100%.	**Vapor Pressure:**	NA.
Density:	9.1 lbs/gallon.	**Vapor Density (air = 1):**	NA.
Specific Gravity (H_2O = 1):	1.087 – 1.093 @ 20 °C	NA = Not Available.	

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions
Conditions to Avoid: Do not mix with any other chemicals or products.
Incompatibility: Avoid contact with strong oxidizers (chlorine, peroxide, chromates, nitric acid, perchlorates, concentrated oxygen, and permanganates) which can generate heat, fire or explosions or release toxic fumes.
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products: Oxides of nitrogen, oxides of carbon, and ammonia

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity Data:

Urea LD50 Oral RAT 8471 mg/kg

Acute Effects:

Eyes: Moderate irritant. May cause redness, burning, inflammation, and/or damage.

Skin: Moderate irritant, especially with prolonged exposure. May cause skin ulceration and/or burns.

Ingestion: May cause severe gastrointestinal irritation, vomiting, stomach cramps, and diarrhea. May interfere with circulation and oxygen carrying capacity of blood with prolonged exposure.

Inhalation: May cause irritation to mucous membranes, coughing, or breathing difficulties. If exposed to decomposition gases remove from area immediately.

Chronic Effects: Not Available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity- Freshwater Fish Species Data
Urea 5713-6 96 Hr LC50 Barillius barna: >9,100 mg/l
Ecotoxicity- MicroTox Data
Urea 5713-6 24 Hr EC50 Daphnia magna straus: >10,000 mg/l

SECTION 13. DISPOSAL CONSIDERATIONS

Do not contaminate lakes, streams, ponds, estuaries, oceans, or other waters by discharge of waste effluents or equipment rinsate. Dispose of waste effluents according to federal, state, and local regulations. Chemical additions or other alterations of this product may invalidate any disposal information in this MSDS.

SECTION 14. TRANSPORTATION INFORMATION

This material is not regulated by US DOT for highway transportation.

SECTION 15. REGULATORY INFORMATION

CERCLA: A spill or release of this material may trigger the emergency release reporting requirements under CERCLA (40CFR Part 300) and/or SARA Title III (40 CFR Part 355). State and local reporting requirements may differ from federal requirements. Consult for further guidance on your responsibilities under these laws: (urea)

SARA Reporting Requirements: SARA, TITLE III, SECTION 313: This product not does contain toxic chemicals subject to the reporting requirements of Section 313, Title III of the Superfund Amendments and Reauthorization Act of 1986.

SECTION 16. OTHER INFORMATION

The information and recommendations herein are taken from data contained in independent industry recognized references including NIOSH, OSHA, ANSI, and NFPA. This information is, as of date, listed above, true and accurate to the best of CoreFluids, LLC knowledge. It is intended for use by persons possessing technical knowledge and at their own discretion and risk. Since actual use is beyond our control, no guarantee, express or implied, and no liability is assumed by CoreFluids, LLC in conjunction with the use of this information. Actual conditions of use and handling may require consideration of information other than, or in addition to, that which is provided herein.