

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

**SECTION 1: IDENTIFICATION****1.1. Product Identifier****Product Form:** Mixture**Product Name:** PURATECH Diesel Exhaust Fluid**Product Codes:**

PURATECH Diesel Exhaust Fluid (DEF) - 2010591010 (Bulk), 2010591021 (Tote), 2010591032 (Drum), 2010591060 (6X1G Case), 2010591062 (3X1G Case)

**Synonyms:** none**1.2. Intended Use of the Product**

Diesel Fuel Additive – Consumer Product

**1.3. Company Identification**North American Lubricants Company  
7337 E. Doubletree Ranch Road, Suite 180  
Scottsdale, AZ 85258  
(800)430-6252  
[www.nalube.com](http://www.nalube.com)**1.4. Emergency Telephone Number****Emergency Number** : CHEMTREC: (800)424-9300 or (703)527-3887**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the Substance or Mixture****Classification (GHS-US)**

Not Hazardous

Full text of H-phrases: see section 16

**2.2. Label Elements****GHS-US Labeling****Hazard Pictograms (GHS-US)** : None Required**Signal Word (GHS-US)** : N/A**Hazard Statements (GHS-US)** : N/A**Precautionary Statements (GHS-US)** : N/A**2.3. Other Hazards**

None Known

**2.4. Unknown Acute Toxicity (GHS-US)**

None of this product contains unknown toxicity.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

Name	Product Identifier	% (w/w)	Classification (GHS-US)
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Water	(CAS No) 7732-18-5	60 -70	None
Urea	(CAS No) 57-13-6	30 – 40	None

\*The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

## 3.2. Mixture

### Not Applicable

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**General:** If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin Contact:** Wash skin thoroughly with soap and water or use recognized skin cleanser. Continue to rinse for at least 10 minutes. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**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 5 minutes. Get medical attention.

**Ingestion:** Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** see below

**Inhalation:** No known significant effects or critical hazards.

**Skin Contact:** May cause slight skin irritation, redness.

**Eye Contact:** May cause slight irritation, watering, redness

**Ingestion:** Can cause gastrointestinal irritation.

**Chronic Symptoms:** No known significant effects or critical hazards.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** This product is not combustible. Use any media that is appropriate for the surrounding fire.

**Unsuitable Extinguishing Media:** none known

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** This product is not combustible

**Explosion Hazard:** Product is not an explosive hazard.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be

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present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Under fire conditions, may produce fumes, smoke, oxides of carbon and hydrocarbons.

**Other Information:** Refer to Section 9 for flammability properties.

### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal.

### 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Put on appropriate personal protective equipment (see Section 8). Do not swallow.

Avoid contact with eyes, skin and clothing. Do not reuse container unless properly cleaned.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool place.

**Incompatible Materials:** strong acids, oxidizing materials

### 7.3. Specific End Use(s)

Diesel Fuel Additive – Consumer Product

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Urea

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AIHA WEEL	TWA: 10 mg/m <sup>3</sup>
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## 8.2. Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant rubber or neoprene protective gloves for prolonged contact.

**Eye Protection:** Chemical goggles or safety glasses if splashing is possible.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable limits. Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Colorless
Odor	: Not available
Odor Threshold	: Not available
pH	: 9.3 – 9.8
Evaporation Rate	: Not available
Melting Point	: 11.3 – 11.5 F (-11.5 – 11.4 C)
Freezing Point	: Not available
Boiling Point	: 220F (104.4C)
Flash Point	: None to 216F
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not flammable
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: 1.091 – 1.092
Specific Gravity	: Not available
Solubility	: Water: 100%
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available
Viscosity, Kinematic	: Not available

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## SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:** No specific test data related to reactivity available for this product or its ingredients.
- 10.2. **Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. **Possibility of Hazardous Reactions:** Under normal condition of storage and use, hazardous reactions will not occur.
- 10.4. **Conditions to Avoid:** none known
- 10.5. **Incompatible Materials:** strong acids, oxidizing materials
- 10.6. **Hazardous Decomposition Products:** Thermal decomposition may produce oxides of nitrogen.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity:**

**LD50 and LC50 Data:**

Urea	
LD50 Oral Rat	8471 mg/kg

**Skin Corrosion/Irritation, Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not Classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not Classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not Classified

**Aspiration Hazard:** Not Classified

**Symptoms/Injuries After Inhalation:** Inhalation is not expected to be hazardous. Inhalation of large amounts of mist may cause mucous membrane irritation.

**Symptoms/Injuries After Skin Contact:** Skin contact is not expected to be hazardous. Prolonged excessive contact may cause mild irritation.

**Symptoms/Injuries After Eye Contact:** Liquid or mist in the eye may cause discomfort in the eye with persistent conjunctivitis, seen as slight excessive redness.

**Symptoms/Injuries After Ingestion:** Ingestion of small amounts is not expected to be acutely hazardous. Ingestion of large amounts may cause gastrointestinal irritation.

**Chronic Symptoms:** Not classified

### 11.2. Information on Toxicological Effects - Ingredient(s)

See 11.1

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General:** None available

12.2. **Persistence and Degradability:** Urea is rapidly hydrolyzed to ammonia and carbon dioxide in environmental systems by the extracellular enzyme, urease, which originates from microorganisms and plant roots.

12.3. **Bioaccumulative Potential:** Urea: The potential for bioconcentration in aquatic organisms is low.

12.4. **Mobility in Soil:** Urea: Very high mobility in soil

### 12.5. Other Adverse Effects

**Other Information:** Avoid release to the environment.

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**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods****Sewage Disposal Recommendations:** none known**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.**SECTION 14: TRANSPORT INFORMATION**

	<b>DOT Classification</b>	<b>TDG Classification</b>	<b>IMDG</b>	<b>IATA</b>
Diesel Exhaust Fluid	Not classified	Not classified	Not classified	Not classified

**Special Precautions to the user:** None known**SECTION 15: REGULATORY INFORMATION****15.1. US Federal Regulations**

<b>SARA Section 311/312 Hazard Classes</b>	Not Classified
<b>SARA Section 313 Form R Reporting</b>	Not Required
<b>SARA Section 313 Supplier Notification</b>	Not Required
<b>TSCA 8(a) CDR Exempt/Partial exemption</b>	All components are listed or exempted.

**15.2. US State Regulations**

No special regulations

California Prop. 65- this product does not contain chemicals regulated under California Proposition 65.

**15.3. Canadian Regulations****This material is listed or exempted.**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

**SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION****Revision Date** : 05/11/2015**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.**GHS Full Text Phrases:** None listed**Party Responsible for the Preparation of This Document**North American Lubricants Company  
7337 E. Doubletree Ranch Road, Suite 180  
Scottsdale, AZ 85258  
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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

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