

# **#1 QF Blue™**

## **PREMIUM AdBLUE**

*The Best Developed for Environmental Protection and Health  
Non - Toxic Diesel Exhaust Fluid*

# **DATA SHEET LIQUID UREA** 32.5%

**DIESEL EXHAUST FLUID : DEF**

**#1 QF Blue™ PREMIUM AdBLUE ULTRA PURE** is the **Top #1 New Brand Worldwide** powered by **HSRC GROUP**, for washing internal combustion gases from Diesel Equipment.

It is a high purity aqueous solution, used in Diesel engines equipped with a selective catalytic reduction system (**SCR = Selective Catalytic Reduction**).

The solution acts as a reducing agent for harmful nitrogen oxides.

Small amounts are injected into the exhaust gas stream in order to reduce nitrogen oxides to harmless nitrogen and water.

**Ecological product since it contributes to the reduction of polluting emissions of nitrogen oxide (NOx).**

### Safety Data Sheet:

Prepared in accordance with Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 05/03/2015 Supersedes: 01/07/2009 Version: 1.0  
08/05/2015

### SECTION 1: Identification of the substance or mixture

Product identification

Product name:

COMPASS BLUE / Liquid for washing exhaust gases from Diesel engines.

Product Form Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance or mixture : Off-gas cleaning

### SECTION 2: Hazard identification

Classification of the substance or mixture

GHS-US Classification Skin irritation. 2 H315 Eye irritation: 2A H319

Label elements GHS-US labeling

Hazard pictograms (GHS-US)

GHS07

Signal word (GHS-US)

Warning

Hazard Statements (GHS-US): H315 - Causes skin irritation H319 - Causes serious eye irritation

H335 - May cause respiratory irritation.



- ▶ Precautionary Statements (GHS-US):
- ▶ P261 - Avoid breathing vapors.
- ▶ P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.
- ▶ P280 - Wear eye protection, protective clothing, protective gloves. P302 + P352 - After contact with skin: Wash with plenty of soap and water.
- ▶ P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- ▶ P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- ▶ P312 - Call a POISON CENTER or doctor if you feel unwell. P332 + P313 - If skin irritation occurs: Get medical attention.
- ▶ P337 + P313 - If eye irritation persists: Get medical advice.
- ▶ P362 + P364 - Take off contaminated clothing and wash before reuse.
- ▶ P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Storage blocked.
- ▶ P501 - Dispose of contents/container to a licensed hazardous waste disposal contractor or except for clean, empty containers that can be disposed of as waste.

- ▶ Liquid for washing exhaust gases from Diesel engines.
- ▶ Safety data Sheet
- ▶ Prepared in accordance with Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations 08/05/2015

### ▶ SECTION 3: Composition / Information on ingredients

#### ▶ 3.1. Mix:

- ▶ Composition
- ▶ High purity synthetic urea (CAS Number) 57-13-6
- ▶ 30-35%
- ▶ Demineralized Water Balance
- ▶ Alkalinity, as ammonia
- ▶  $\leq 0.1$

### SECTION 4: First Aid Measures

#### General First Aid:

If you are exposed to or splashed by this liquid, get medical attention. Show this safety data sheet to the attending physician.

Wash the contaminated clothing before using it again. Never give anything to an unconscious person.

#### First-aid measures after inhalation:

**IF THE PRODUCT HAS BEEN INHALED:** Move the person to a place where there is fresh air and keep him at rest in a comfortable position for breathing.

Get medical attention if breathing is difficult, give oxygen.

#### First-aid measures after skin contact:

Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, seek medical attention.

#### First aid measures in case of eye contact:

Immediately rinse with plenty of water for at least 15 minutes.

Remove contact lenses if present. If pain, flickering, or irritation develops or persists, continue rinsing or seek medical attention.

#### First-aid measures after ingestion:

**IF SWALLOWED:** Rinse mouth well. Do not induce vomiting and get medical attention.

Most important symptoms and effects, both acute and delayed:

#### Symptoms / injuries:

Causes skin irritation. Causes serious eye irritation. It can irritate the respiratory tract.

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Causes skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: May cause gastrointestinal irritation.



### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media:

Carbon dioxide foam.  
dry powder

#### Special hazards arising from the substance or mixture:

**Fire hazard:** The product is not flammable. Explosion hazard: The product is not explosive.

**Reactivity:** No dangerous reactions known under normal conditions of use.

#### Tips for firefighters:

Fire precautionary measures:

Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking.

#### Fire Fighting Instructions:

Use water spray or fog to cool exposed containers. Take care when fighting any chemical fire. Do not discard fire extinguishing water.

#### Protection during fire fighting:

Do not enter the fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: General measures: Evacuate the area. Ventilate the area. Stay upwind. Spill must be handled by trained cleanup crews suitably equipped with respiratory equipment and full chemical protection gear (**see Section 8**).

#### For non-emergency personnel:

##### Protective equipment:

Wear protective equipment as described in Section 8. Emergency procedures. Evacuate unnecessary personnel.

**6.1.2. For emergency responders:**

Protective Equipment: Wear suitable protective clothing, gloves, and eye and face protection. Use an approved compressed air respirator in case of an emergency.

**Environmental precautions:**

Prevent runoff into sewers and public waters. Notify authorities if liquid enters sewers or public waters. To avoid it's releasing into the environment.

**Methods and material for containment and cleaning up:**

For containment: Stop leak if safe to do so. Contain any spill with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up: Absorb spill with inert solids such as clay or diatomaceous earth as soon as possible. Sweep up and collect spilled material and place in an appropriate container for disposal. This material and its container must be disposed of safely, and in accordance with current environmental legislation.

Reference to other sections

See sections 8 and 13.

**SECTION 7: Handling and storage****Precautions for safe handling:**

Do not handle until all safety precautions have been read and understood.

Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mists.

Wear necessary personal protective equipment. Ensure good ventilation in the workplace. If a process is performed that may cause respirable particles, suitable respiratory protection must be used to avoid dust or vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and after leaving work.

Conditions for safe storage, including any incompatibilities: Technical measures: Empty containers retain product residue and can be dangerous. Do not reuse container.

### Storage conditions:

Store in a dry, cool and well ventilated place. Keep container tightly closed. Containers once opened must be properly sealed and kept upright to prevent leaks.

Do not store in unlabeled containers. Storage temperature: -5 - 30°C (23 - 86°F)

## SECTION 8: Exposure controls / personal protection

### Control parameters:

Urea (57-13-6)

Observation (ACGIH) OELs not established Observation (OSHA) OELs not established

Urea, N, N -methylenebis- (13547 - 17 - 6) Observation (ACGIH)

OELs not established Remark (OSHA) OELs not established

Imidodicarbonic diamide (108-19-0) Remark (ACGIH)

OELs not established Remark (OSHA) OELs not established

### Exposure controls:

Appropriate engineering controls:

Provide general and local ventilation or other engineering controls to control airborne levels below those recommended.

### Exposure limits.

Use explosion proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

### Personal protection equipment:

Gloves, protective glasses, protective clothing.

Hand Protection: Wear gloves chemically resistant to this material when contact with this product is prolonged or repeated.

Gloves must be classified under EN 374 or ASTM F1296.

Gloves can be made of the following materials: neoprene, nitrile/butadiene rubber, polyethylene, polyvinyl alcohol laminate, PVC, or vinyl.  
Immediately change contaminated gloves.

Eye Protection: Wear eye protection, including chemical splash goggles and a face shield when liquid spray or flying particles are present.

### **Skin and body protection:**

Wear long sleeves, and PPE / coveralls that are chemically impervious to minimize bodily exposure.

### **Respiratory protection:**

Wear NIOSH approved dust/particulate respirator. Where vapor, mist, or dust exceeds applicable PELs or Other OELs, wear NIOSH-approved respiratory protection equipment.

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties:**

Physical state: Liquid

Appearance: Clear, colorless liquid. Colour: Colourless. Yellow.

Odor : Characteristic.

Odor threshold : Data not available pH: 10 [Conc. (%w/w): 10%]

Relative Evaporation Rate (Butyl Acetate = 1): Data not available Melting Point: Data not available

Freezing Point: -11°C (12.2°F) Boiling Point: 103°C (217.4°F) Flash Point: Data not available

Autoignition temperature: Data not available Decomposition temperature: Data not available Flammability (solid, gas): Data not available

Vapor Pressure: 0.4 mm Hg at 20°C (68°F)

Relative Vapor Density at 20°C: Data not available Relative Density: Data not available

Density: 1,087 - 1,093 g/cm<sup>3</sup> at 20°C (68°F) Solubility: Data not available

Kinematic Viscosity: Data not available Viscosity, dynamic: 0.14 mPa (0.14 centipoise)



### SECTION 10: Stability and reactivity

**Reactivity:**

No dangerous reactions known under normal conditions of use.

**Chemical stability:**

Stable under recommended handling and storage conditions (see section 7).

**Possibility of hazardous reactions:**

None known.

**Conditions to avoid:**

Avoid contact with incompatible materials.

**Incompatible materials:**

Oxidizing agent. Nitrites.

**Hazardous decomposition products:**

Thermal decomposition generates: Carbon oxides (CO, CO). Nitrogen oxides. Ammonia.

### SECTION 11: Toxicological information

**11.1. Information on toxicological effects:**

Acute toxicity: Not classified Urea (57-13-6)

LD50 oral rat 8471 mg/kg

Skin Corrosion/Irritation: Causes skin irritation. pH: 10 [conc. (%w/w): 10%]

Serious eye damage/irritation: Causes serious eye irritation. pH: 10 [conc. (%w/w): 10%]

Respiratory or skin sensitization : Not classified Germ cell mutagenicity: Not classified Carcinogenicity : Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Specific Organ Toxicity (Repeated Exposure): Not classified Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause respiratory irritation. Symptoms/Injuries After Skin Contact: Causes skin irritation. Symptoms/Injuries After Eye Contact: Causes serious eye irritation. Symptoms/Injuries After Ingestion: May cause gastrointestinal irritation.

## **SECTION 12: Ecological information**

Toxicity:

Ecology - general: No information available.

Persistence and degradability:

Persistence and degradation. Easily biodegradable.

Bioaccumulative potential:

Bioaccumulative Potential: No information available.

Mobility in the soil:

Ecology – soil: No information available.

Other adverse effects:

Other adverse effects: Data not available.

## **SECTION 13: Disposal Considerations**

### **13.1. Waste treatment methods:**

Waste Treatment Methods: Obtain consent from pollution control authorities before discharging wastewater to a Treatment Plant.

Waste Disposal Recommendations: Dispose of safely in accordance with local/national regulations. Do not allow the product to be released into the environment.

## **SECTION 14: Transportation information**

According to DOT it is not dangerous for transport.

**Marine transport:**

No additional information available.

**Air Transport:**

No additional information available.

### SECTION 15: Regulatory information

US federal regulations

Diesel exhaust fluid.

All chemicals in this product are listed on the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory.

**All components of this preparation are registered on the inventory:**

EINECS or ELINCS list SARA Section 311/312 Hazard Classes Immediate (acute) health hazard.

**International regulations:**

No additional information available.

**United States State Regulations:**

California Proposition 65, This product does not contain any substances known to the State of California to cause cancer and/or reproductive harm.

**SECTION 16: Other information indication of changes:****Revision 1.0: New SDS created. NFPA Health Hazard:**

1 - Exposure could cause irritation, but only secondary residues even if no treatment is given.

NFPA Fire Hazard: 0 - Non-burning materials. NFPA Reactivity: 0 - Normally stable, even under fire conditions, and are not reactive with water.

HMIS III Classification

Health 1

Flammability 0

physical 0