

# Safety Data Sheet

## Section 1: Product identification and use

**Product Identifier:**

# TCI 2010 NOx Envirocare™

**Process Identifier:**

## Ultra-pure 31.8–33.2% aqueous urea diesel exhaust fluid

24 H EMERGENCY: 613-996-6666

**Manufacturer's name and address:**

**Tetra-Chem Industries Ltd.**  
271 Ingersoll St. S., Ingersoll ON N5C 3J7 Canada  
Phone: 519-485-4370 — Toll free: 888-658-5515

**Supplier's name and address:**

**Tetra-Chem Industries Ltd.**  
271 Ingersoll St. S., Ingersoll ON N5C 3J7 Canada  
Phone: 519-485-4370 — Toll free: 888-658-5515

## Section 2: Hazard identification

### GHS Classification

**Corrosive To Metals:** Category 1  
**Skin Corrosion/Irritation:** Category 2  
**Eye Damage/Irritation:** Category 2A

### Pictograms



### Signal Word

**WARNING**

### Hazard Statements

**H290—**May be corrosive to metals.

**H315—**Causes skin irritation.  
**H319—**Causes serious eye irritation.

### Precautionary Statements

**P234—**Keep only in original container.  
**P264—**Wash hands and contact materials thoroughly after handling.  
**P280—**Wear protective gloves, protective clothing, eye protection, and face protection.  
**P302+P352—**IF ON SKIN: Wash with plenty of water for 1 minute.  
**P305+P351+P338—**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
**P321—**Specific treatment (contact hospital emergency department).  
**P332+P313—**If skin irritation occurs: Get medical advice/attention.  
**P337+P313—**If eye irritation persists get medical advice/attention.  
**P362+P364—**Take off contaminated clothing and wash it before reuse.  
**P390—**Absorb spillage to prevent material damage.  
**P406—**Store in a corrosion resistant container of HDPE or Stainless Steel.

## Section 3: Composition / information on ingredients

**Hazardous Ingredients:**

**CHEMICAL NAME**

**Urea**

**CAS NUMBER**

**57-13-6**

**CONCENTRATION [%]**

**31.8–33.2**

## Section 4: First aid measures

### Description of First Aid Measures

**General:** Low risk to adverse health effects.

**Inhalation:** Respiratory irritation or sore throat.

**Skin Contact:** Mild irritation. Wash with cold water.

**Eye Contact:** Remove contact lenses. Rinse with cold water or saline solution.

**Ingestion:** Seek immediate medical attention. Do not induce vomiting.

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

**General:** Low risk to adverse health effects.

**Inhalation:** Respiratory irritation or sore throat.

**Skin Contact:** Mild irritation.

**Eye Contact:** Mild irritation. If irritation persists, seek medical attention.

**Ingestion:** Seek immediate medical attention. Do not induce vomiting.

## Section 5: Fire-fighting measures

### Extinguishing Media

**Suitable Extinguishing Media:** Evaluate based on surrounding fire.

**Unsuitable Extinguishing Media:** Evaluate based on surrounding fire.

### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Corrosive ammonia vapours and oxides of nitrogen are formed upon decomposition at high temperatures of 132.6°C.

**Explosion Hazard:** Only if mixed with Nitric/Perchloric acid or strong oxidizers.

**Reactivity:** Stable at ambient temperatures.

### Advice for Firefighters

**Precautionary Measures Fire:** Evaluate based on surrounding fire.

**Firefighting Instructions:** Evaluate based on surrounding fire.

**Protection During Firefighting:** Full protective gear. Self-contained breathing apparatus should be worn.

**Hazardous Combustion Products:** Oxides of Carbon & Nitrogen, Ammonia vapours.

## Section 6: Accidental release measures

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Clear and restrict hazard area access to authorized persons only.

**For Non-Emergency Personnel**

**Protective Equipment:** Wear impervious splash protection, safety glasses, boots and gloves.

**Emergency Procedures:** Mop or vacuum spills and place reclaimed liquid into plastic salvage containers for appropriate disposal.

**For Emergency Personnel**

**Protective Equipment:** Wear impervious splash protection.

**Emergency Procedures:** Mop or vacuum spills and place reclaimed liquid into plastic salvage containers for appropriate disposal.

### Environmental Precautions

**Methods and Material for Containment and Cleaning Up**

**For Containment:** Water absorbent pads, booms or dikes.

**Methods for Cleaning Up:** Mop or vacuum spills and place reclaimed liquid into plastic salvage containers for appropriate disposal.

## Section 7: Handling and storage

### Precautions for Safe Handling

**Additional Hazards When Processed:** Use only Manufacturer supplied storage and/or dispensing equipment. See GHS WORKPLACE LABEL in your work area.

**Hygiene Measures:** Do not eat, drink or smoke while using this product.

**Personal Protection Equipment** required when dispensing.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Normal ventilation.

**Storage Conditions:** Keep only in original containers.

**Incompatible Materials:** Do not mix with other substances.

**Special Rules on Packaging:** Consult Manufacturer or Supplier

**Specific End Use(s)** TCI 2010 NOx ENVIROCARE™ is used solely in selective catalytic reduction (SCR) technology of diesel fuel powered motorized stationary and mobile engine applications to reduce NOx emissions and greenhouse gases. For detailed instructions or concerns consult the Manufacturer or Supplier.

Scan Label QR for Product Application Sheet and SDS for safe intended use.

---

**Section 8: Exposure controls / personal protection****Control Parameters**ACGIH TLV: **Not available.**OSHA PEL: **Not available.****Exposure Controls**Appropriate Engineering Controls: **Normal ventilation removing any possible hazard from an inside or outside work environment.****Personal Protective Equipment:**Other Information: **Handle in accordance with good hygiene and safety practices and procedures. GLOVES are not always required.**

---

**Section 9: Physical and chemical properties****Information on Basic Physical and Chemical Properties**Physical State: **Liquid.**Appearance: **Water clear with slight tint of blue.**Odour: **Ammonia.**Odour Threshold: **1 ppm.**pH: **10**Relative Evaporation Rate (butyl acetate=1): **0.3**Melting Point: **Not applicable.**Freezing Point: **-12°C**Boiling Point: **104°C.**Flash Point: **Not applicable.**Auto-ignition Temperature: **Not applicable.**Decomposition Temperature: **132.6°C.**Flammability (solid/gas): **Not applicable..**Lower Flammable Limit: **Not applicable..**Upper Flammable Limit: **Not applicable..**Vapour Pressure: **Not applicable..**Relative Vapour Density at 20°C: **Not applicable..**Relative Density (water=1): **1.087-1.093**Solubility in Water: **Complete**Partition coefficient: n-octanol/water: **Not applicable.**Viscosity: **1.35 centipoise @ 20°C.**Explosion Data - Sensitivity to Mechanical Impact: **Not applicable.**Explosion Data - Sensitivity to Static Discharge: **Not applicable.**

---

**Section 10: Stability and reactivity**Reactivity: **Reacts violently/explosively with strong oxidizers.**Chemical Stability: **Stable.**Possibility of Hazardous Reactions: **None when used as directed.**Conditions to Avoid: **Chlorine or bleach.**Incompatible Materials: **Chlorine bleach and strong oxidizers.**Hazardous Decomposition Products: **Oxides of Carbon & Nitrogen, Ammonia vapours.**

---

**Section 11: Toxicological information****Information on Toxicological Effects - Product**Acute Toxicity: **Not available.**LD<sub>50</sub> Data (Species-Route): **Rat - oral: 45 ml/kg as TCI 2010 NOx Envirocare™**LC<sub>50</sub> Data (Species-Route): **Not available.**Skin Corrosion/Irritation: **Mild irritant (Acute exposure).**Serious Eye Damage/Irritation: **Mild irritant (Acute exposure).**Respiratory or Skin Sensitization: **Not suspected.**Germ Cell Mutagenicity: **Not suspected.**Teratogenicity: **Not suspected.**Carcinogenicity: **Not suspected.**Specific Target Organ Toxicity (Repeated Exposure): **Not available.**Reproductive Toxicity: **Not suspected.**Specific Target Organ Toxicity (Single Exposure): **Not suspected.**Aspiration Hazard: **Not anticipated.**Symptoms/Injuries After Inhalation: **Irritation/Slight tingling sensation.**Symptoms/Injuries After Skin Contact: **Slight irritation/No visible observation.**Symptoms/Injuries After Eye Contact: **Stinging/scaly sensation.**Symptoms/Injuries After Ingestion: **Sore throat/Slight tingling sensation.**

Information on Toxicological Effects - Ingredients

**Not available.**

---

**Section 12: Ecological information**Toxicity: **Not applicable when used as directed.**Mobility in Soil: **Absorbed by plants as a source of nitrogen.****Other Adverse Effects**Other Information: **No unusual adverse effects encountered.**

---

**Section 13: Disposal considerations**Waste Disposal Recommendations: **Consult Manufacturer or Supplier.**Additional Information: **The cleaning process may generate a hazardous industrial waste. Comply with Canadian Ministry of Environment and Climate Change: Regulation 347 and local municipal by-laws. Comply with US EPA's federal, state****& local regulations. Tetra-Chem Industries Ltd. is licensed by the Ministry of the Environment and Climate Change for waste management. Ontario Certificate of Approval # A 800506.**Provincial Waste Class: **Waste stream to be determined for treatment method.**

---

**Section 14: Transport information**TDGA Canada—Dangerous Goods: **NOT REGULATED.**49 CFR (USA)—Dangerous Goods: **NOT REGULATED.**IMDG (Vessel)—Dangerous Goods: **NOT REGULATED.**IATA (Cargo air)—Dangerous Goods: **NOT REGULATED.**IMDG (Passenger air)—Dangerous Goods: **NOT REGULATED.**EMERGENCY ASSISTANCE: **Canutec 1-888-CANUTEC (1-888-226-8832)**

Proper Shipping Name:

Hazard Class:

Identification Number:

Packing Group:

Label/Placard Codes:

---

**Section 15: Regulatory information**CANADA: **All ingredients are listed on the DSL Domestic Substance List.**USA: **All ingredients are listed on the TSCA Toxic Substances Control Act.**

---

**Section 16: Other information**Prepared by: **Health and Safety committee**Contact: **A. Struthmann (Hon. BSc.)**Telephone: **1-519-536-1617**Date prepared: **2023-02-28**Additional information: **The information in this SDS has been obtained from sources believed to be reliable. The manufacturer and supplier provides no warranties express or implied and assumes no responsibility for the accuracy or the completeness of the data contained herein.**