



MATERIAL SAFETY DATA SHEET

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1. Product and Company Identification: AnClear32 Diesel Exhaust Fluid

Effective Date: Jan. 25, 2016

24 Hour Emergency Numbers
CANUTEC'S # 613-996-6666(call collect)
OR *666 cellular

Anco Chemicals Inc.
85, Malmo Court
Maple, ON, L6A 1R4
Tel. 905-832-2276

Chemical Name: Stabilized Urea mixture
Product Use: To reduce nitrogen oxide in diesel engines
Product Covered: 32.5% Urea Solutions CAS# 57-13-6
Published: Anco Chemicals Inc., Quality Department,
Tel : 1-905-832-2276 x 233 by Sat Anand

2. Hazardous Identification

Emergency Overview: Clear, colourless liquid with ammonia odour

Classification: WHMIS classification: It is not a controlled product in Canada and is not a hazardous product under OSHA regulations.

Short term health effects:

Eyes: May cause slight irritation on a longer contact.

Skin: May cause mild irritation if in contact for long period of time.

Inhale: It is not harmful to work with but if spilled on your body may cause sore throat, cough and may be shortness of breath.

Ingest: May cause throat and stomach irritation. It may cause headache, dizziness, nausea, vomiting and edema.

3. Composition/Information on Ingredients

| Ingredients: | % | CAS. No. |
|--------------|------|-------------|
| Urea | 32.5 | 57-13-6 |
| Water | 67.5 | 007732-18-5 |

4. First Aid Measures:

Inhaled: Move victim to fresh air. If not breathing give artificial respiration.

Keep patient warm and at rest and obtain medical attention if symptoms persists.

In Contact with the Skin: Flush skin with running water for at least 15 minutes.

Start flushing while removing contaminated clothing. If irritation persists, repeat flushing and obtain medical attention.



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In Contact with the Eyes: Flush eyes with running water for a minimum of 15 minutes and seek medical attention.

Ingested: If victim is alert and not convulsing, rinse out mouth and give 1 to 2 glasses of water to dilute material. Do not induce vomiting. Never give anything by mouth if victim is unconscious.

Emergency Medical Care: Treat as per the victim symptoms as explained above.

5. Fire & Explosion Data:

Flamability: Not flammable but the container may rupture if exposed to excessive heat.

Fire Extinguishing Media: Use CO2, Dry Chemical, Water Spray to extinguish the surrounding fire.

Fire Fighting Procedures: Use water to keep fire-exposed containers cool. Use water fog to reduce concentration if necessary. Full protective equipment including a self-contained breathing apparatus, should be worn in a fire involving the material and surrounding.

Hazardous combustion products: May include CO2, oxides of nitrogen, ammonia and other irritating fumes

6. Accidental Release Measures

Personal precautions: Keep unwanted persons away from the area of spill. Use proper protective equipments.

Environmental precautions: Don't let the spill enter the sewers and waterways.

Special procedures: Small spill can be cleaned with non-reactive absorbent and placed in suitable, covered containers.

Large spill should be prevented to flow to the drains and sewers. Contact emergency service responders for help. Let the appropriate authority know about the spill.

7. Handling and Storage

Handling Procedures and Equipment: Handle this product in well vented area. Avoid contact with eyes, skin or clothing by using appropriate protective equipments. If in contact, wash with soap and water. Keep containers tight closed when not in use. **Storage Requirements:** Store in a cool, dry, well ventilated area away from incompatibles. Store away from strong oxidizing agents (e.g. hydrogen peroxide, nitric acid. Sodium Hypochlorite) and strong acids.

8. Exposure Controls/Personal Protection

Engineering Controls: Local exhaust ventilation is required especially in confined areas. Follow the confined space regulations.

Respiratory Protection: Generally not required if handling in a ventilated atmosphere. Respirators may be required under certain conditions.

Skin Protection: Rubber gloves and protective clothing are recommended.



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Eye Protection: Use gas-tight chemical safety goggles when there is potential for eye contact.

Preventive Measures:

Wash hands before eating, drinking, smoking or using toilet facilities. Avoid contact with skin, eyes and clothing. Avoid breathing vapours.

9. Physical and Chemical Properties

Physical Properties

| | |
|--------------------------------|--|
| Appearance & Odour: | Colourless liquid with a slight ammonia smell. |
| Boiling Point: | 104C |
| Melting/Freezing Point: | -12C |
| PH | 9.5 – 10.0 |
| Density: | 9.1 lbs/USG |
| Specific Gravity | 1.094 @ 25C |
| Evaporation Rate: | Not applicable. |
| Solubility: | 100% Soluble in Water |
| Volatile by Volume: | No Data. |

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage

Conditions to Avoid: Excessive Heat, sparks and open flame.

Materials to Avoid: Oxidizers, Acids

Hazardous Decomposition or Combustion Products: May include and are not limited to Oxides of Carbon and Nitrogen, ammonia.

11. Toxicological Information

Toxicological and Health Data:

Toxicological Data: LC50 : N/A

LD50 : 11,500-13,000 mg/kg mouse, 14,300-15,000 mg/kg rat

Carcinogenicity Data: The ingredients of this product are not listed as carcinogens by NTP, (National Toxicology Program), not regulated as carcinogens by OSHA, (Occupational Safety & Health Administration), by IARC, (International Agency for research on Cancer or ACGIH (American Conference of Governmental Industrial Hygienists).

Acute exposure: May cause irritation to eyes and skin

12. Ecological Information

Ecotoxicity: This product should not be allowed to enter sewers. Components of this product have been identified as having environmental concerns.

Aquatic toxicity: Not available



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Bioaccumulation / accumulation: Not available

Other adverse effects: Not available

13. Disposal Consideration

Waste Disposal Methods: Dispose this product in accordance with all applicable local, provincial, state and federal regulations.

Handling of waste: Ref. to section 7 above.

14. Transport Information

Clear Language/TDG (Transportation of Dangerous Goods): Not regulated as dangerous goods

U.S. DOT (Department of Transportation): Not regulated as dangerous goods

15. Regulatory Information

Canadian Regulations:

All constituents of this solution are included on the DSL

WHMIS Classification: It is not a controlled product in Canada and is not a hazardous product under OSHA regulations. MSDS contains all the information required by the Controlled Product Regulations.

US Federal Regulations:

All constituents of this solution are included in TSCA list. This product is not classified as hazardous under U.S.EPA regulations.

Food and Drug Administration: Not available

16. Other Information

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Tel : 1-905-832-2276 x 233

Effective date: Jan. 25, 2016

HMIS rating: Health: 1, Flammability: 0, Reactivity: 0

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