

**STABLEGUARD UREA 32**

MSDS No.:LT16603

MSDS Revision Date (dd/mm/yyyy): 16/08/2007

Page 1 of 7

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** : **STABLEGUARD UREA 32**

**Product Code(s)** : CC2584 (Bulk); CC2585 (330 Gallon / 1250 L Tote tanks); CC2586 (275 Gallon / 1040 L Disposable Tote); CC2587 (55 Gallon / 208 L Drum); CC2579 (330 Gallon / 1250 L Disposable Tote).

**Product Use** : Stabilized urea premix for use in reducing nitrogen oxides in diesel engines.

**Chemical Family** : Mixture.

**Supplier's name and address:**  
**Cummins Filtration**  
 1200 Fleetguard Road  
 Cookeville, TN, U.S.A.  
 38506

**Manufacturer's name and address:**  
 Refer to Supplier

**Information Telephone No.** : (931) 526-9551 (Hours of operation: 24 Hours per day, 7 days per week)

**24 Hr. Emergency Tel #** : Chemtrec (800) 424-9300 (Within Continental U.S.); Chemtrec (703) 527-3887 (Outside U.S.).

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Ingredients</u> | <u>CAS #</u> | <u>% (weight)</u> | <u>ACGIH TLV</u>                    |             | <u>OSHA PEL</u> |             |
|--------------------|--------------|-------------------|-------------------------------------|-------------|-----------------|-------------|
|                    |              |                   | <u>TWA</u>                          | <u>STEL</u> | <u>PEL</u>      | <u>STEL</u> |
| Urea               | 57-13-6      | 30.00 - 35.00     | 10 mg/m <sup>3</sup><br>(AIHA WEEL) | N/Av        | N/Av            | N/Av        |

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Clear, colourless liquid. Ammonia odour. May be harmful if swallowed. May cause nausea, vomiting, headache and other central nervous system effects. May be mildly irritating to eyes and skin.

#### \*\*\*POTENTIAL HEALTH EFFECTS\*\*\*

**Target organs** : Eyes, skin and digestive system.

**Routes of exposure** : *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES

**Signs and symptoms of short-term (acute) exposure**

*Inhalation* : May cause irritation to the nose, throat and upper respiratory tract. In high concentrations, symptoms may include sore throat, sneezing, coughing and shortness of breath.

*Skin* : May cause mild skin irritation on prolonged contact.

*Eyes* : May cause temporary irritation.

*Ingestion* : May be harmful if swallowed. May cause irritation of mouth, throat, and stomach. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

**Effects of long-term (chronic) exposure**

: None known or reported by the manufacturer.

**Conditions aggravated by overexposure**

: None known.

**Carcinogenic status**

: See TOXICOLOGICAL INFORMATION, Section 11.

**Additional health hazards**

: See TOXICOLOGICAL INFORMATION, Section 11.

**Potential environmental effects**

: See ECOLOGICAL INFORMATION (Section 12).

### SECTION 4 - FIRST AID MEASURES

**STABLEGUARD UREA 32**

MSDS No.:LT16603

MSDS Revision Date (dd/mm/yyyy): 16/08/2007

Page 2 of 7

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. Obtain medical attention if symptoms develop and persist.
- Skin contact** : Remove contaminated clothing. Wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Launder clothing before reuse.
- Eye contact** : Flush with plenty of water. If irritation persists, seek prompt medical attention.
- Ingestion** : Do NOT induce vomiting. Consult a physician if necessary. Never give anything by mouth to an unconscious person.
- Notes For Physician** : Treat symptomatically.

**SECTION 5 - FIRE FIGHTING MEASURES**

**Fire hazards/conditions of flammability**

- : Not flammable under normal conditions of handling. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

**Flammability classification (OSHA 29 CFR 1910.1200)**

- : Non-flammable.

**Flash point**

- : N/Av

**Flash point Method**

- : COC

**Auto-ignition temperature** : N/Av

**Lower flammable limit (% by vol.)**

- : N/Av

**Upper flammable limit (% by vol.)**

- : N/Av

**Oxidizing properties**

- : None known.

**Flame Projection Length**

- : N/Av

**Flashback observed** : N/Av

**Explosion data: Sensitivity to mechanical impact / static discharge**

- : Not expected to be sensitive to mechanical impact or static discharge.

**Suitable extinguishing media**

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

**Special fire-fighting procedures/equipment**

- : Firefighters should wear proper protective equipment and self contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

**Hazardous combustion products**

- : Carbon oxides, nitrogen oxides, ammonia, biuret, cyanuric acid and other irritating fumes and smoke.

**NFPA Rating**

|  |                  |                        |                       |                         |            |
|--|------------------|------------------------|-----------------------|-------------------------|------------|
|  | 0 - Minimal      | 1 - Slight             | 2 - Moderate          | 3 - Serious             | 4 - Severe |
|  | <i>Health:</i> 1 | <i>Flammability:</i> 0 | <i>Instability:</i> 0 | <i>Special Hazards:</i> | None       |

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear suitable protective equipment. For personal protection see section 8.

**Environmental precautions**

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

**Spill response/cleanup**

- : Ventilate area of release. Stop spill or leak at source if safely possible. Contain and absorb spilled material with inert, non-combustible absorbent material, such as sand. Shovel into suitable container for disposal. Refer to Section 13 for disposal of contaminated material. Notify the appropriate authorities as required.

**Prohibited materials**

- : None known.

**Special spill response procedures**

- : In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).  
 US CERCLA Reportable quantity (RQ): None reported.

**SECTION 7 - HANDLING AND STORAGE**

**STABLEGUARD UREA 32**

MSDS No.:LT16603

MSDS Revision Date (dd/mm/yyyy): 16/08/2007

Page 3 of 7

- Safe Handling procedures** : Wear suitable protective equipment during handling. Use with adequate ventilation. Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. Keep away from extreme heat and flame. Avoid contact with strong oxidizing agents. Use caution when opening cap. Keep containers tightly closed when not in use.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Keep away from incompatibles. Inspect periodically for damage or leaks. No smoking in the area. Do not freeze.
- Incompatible materials** : Strong acids and oxidizing agents.
- Special packaging materials** : Not available.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

- Ventilation and engineering measures** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
- Respiratory protection** : None required under normal conditions. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Seek advice from respiratory protection specialists.
- Skin protection** : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.
- Eye / face protection** : If splashing might occur, wear eye protection such as safety glasses with side shields.
- Other protective equipment** : Emergency showers and eyewash facilities should be nearby. Other equipment may be required depending on workplace standards.
- General hygiene considerations** : Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. When using do not eat or drink. When using do not smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.
- Permissible exposure levels** : For individual ingredient exposure levels, see Section 2.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- |  |  |
|--|--|
| <b>Physical state</b> : Liquid.                      | <b>Appearance</b> : Clear, colourless liquid.        |
| <b>Odour</b> : Ammoniacal.                           | <b>Odour threshold</b> : N/Av                        |
| <b>pH</b> : 9.5                                      |  |
| <b>Boiling point</b> : N/Av                          | <b>Specific gravity</b> : 1.094 @ 25°C / 77°F        |
| <b>Melting/Freezing point</b> : N/Av                 | <b>Coefficient of water/oil distribution</b> : N/Av  |
| <b>Vapour pressure (mmHg @ 20° C / 68° F)</b> : N/Av | <b>Solubility in water</b> : Complete                |
| <b>Vapour density (Air = 1)</b> : N/Av               | <b>Evaporation rate (n-Butyl acetate = 1)</b> : N/Av |
| <b>Volatile organic Compounds (VOC's)</b> : N/Av     | <b>Volatiles (% by weight)</b> : N/Av                |

**SECTION 10 - REACTIVITY AND STABILITY DATA**

- Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed.
- Hazardous polymerization** : Will not occur.
- Conditions to avoid** : Avoid excessive heat, sparks and open flame.
- Materials To Avoid And Incompatibility** : Incompatible materials (see Section 7).
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

- Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

**STABLEGUARD UREA 32**

MSDS No.:LT16603

MSDS Revision Date (dd/mm/yyyy): 16/08/2007

Page 4 of 7

| <u>Ingredients</u> | <u>LC<sub>50</sub>(4hr)</u><br><u>inh, rat</u> | <u>LD<sub>50</sub></u> |                     |
|--------------------|--|------------------------|---------------------|
|                    |  | <u>oral</u>            | <u>dermal</u>       |
| Urea               | N/Av   | 8471 mg/kg (rat)       | 8200 mg/kg (rabbit) |

- Carcinogenic status** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive effects** : None known.
- Teratogenicity** : None known.
- Mutagenicity** : None known.
- Epidemiology** : Not available.
- Sensitization to material** : None known.
- Synergistic materials** : Not available.
- Irritancy** : May be mildly irritating to eyes and skin.
- other important hazards** : None known.




**SECTION 12 - ECOLOGICAL INFORMATION**

- Environmental effects** : The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
- Important environmental characteristics** : Not available.
- Ecotoxicological** : No data is available on the product itself.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

- Handling for Disposal** : Handle waste according to recommendations in Section 7.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**SECTION 14 - TRANSPORTATION INFORMATION**


| <b>Regulatory Information</b>           | <b>UN Number</b> | <b>Shipping Name</b> | <b>Class</b>  | <b>Packing Group</b> | <b>Label</b>  |
|---|------------------|----------------------|---------------|----------------------|---|
| 49CFR/DOT                               | None             | Not regulated.       | not regulated | none                 |  |
| <b>49CFR/DOT Additional information</b> | None.            |                      |               |                      |   |
| TDG                                     | None             | Not regulated.       | not regulated | none                 |  |
| <b>TDG Additional information</b>       | None.            |                      |               |                      |   |
| ICAO/IATA                               | None             | Not regulated.       | not regulated | none                 |  |

**STABLEGUARD UREA 32**

MSDS No.:LT16603

MSDS Revision Date (dd/mm/yyyy): 16/08/2007

Page 5 of 7

|   |       |                |               |      |   |
|---|-------|----------------|---------------|------|---|
| <b>ICAO/IATA Additional information</b> | None. |                |               |      |   |
| <b>IMDG</b>                             | None  | Not regulated. | not regulated | none |  |
| <b>IMDG Additional information</b>      | None. |                |               |      |   |

**SECTION 15 - REGULATORY INFORMATION**

**US Federal Information:**

OSHA: This material is not classified as hazardous under OSHA regulations (29 CFR Part 1910.1200).

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): There are no ingredients present above reportable levels, which have reportable quantities.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: No hazards resulting from the material as supplied. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

**US State Right to Know Laws:**

New Jersey Labeling Requirements: This product contains the following substances required to be disclosed on product labeling: Water (CAS # 7732-18-5, >60%); Urea (CAS # 57-13-6, 32%); Ammonia (CAS # 7664-41-7, <0.3%); Biuret (CAS # Unknown, <0.3%); Carbonate (CAS # Unknown, <0.3%); formaldehyde (CAS # 50-00-0, <0.01%). Ammonia is considered a hazardous substance in the State of New Jersey.

California Proposition 65: This product contains a chemical known to the State of California to cause cancer. This product contains: formaldehyde; chromium; Nickel. These chemicals are present at less than 0.1%.

**International Information:**

Canadian WHMIS Classification: This product is not a WHMIS controlled product in Canada.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

***This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.***

**SECTION 16 - OTHER INFORMATION**

**HMIS Rating** : \* - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe  
*Health:* 1 *Flammability:* 0 *Reactivity:* 0

**Legend** : ACGIH: American Conference of Governmental Industrial Hygienists  
 CAS: Chemical Abstract Services  
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
 CFR: Code of Federal Regulations  
 CSA: Canadian Standards Association  
 DOT: Department of Transportation  
 EPA: Environmental Protection Agency  
 NFPA: National Fire Protection Association  
 HMIS: Hazardous Materials Identification System

**STABLEGUARD UREA 32**

MSDS No.:LT16603



MSDS Revision Date (dd/mm/yyyy): 16/08/2007

Page 6 of 7

HSDB: Hazardous Substances Data Bank  
 IARC: International Agency for Research on Cancer  
 IATA: International Air Transport Association  
 ICAO: International Civil Aviation Organisation  
 IMDG: International Maritime Dangerous Goods  
 Inh: Inhalation  
 N/Ap: not applicable  
 N/Av: not available  
 NIOSH: National Institute of Occupational Safety and Health  
 NTP: National Toxicology Program  
 OSHA: Occupational Safety and Health Administration  
 PEL: Permissible exposure limit  
 RCRA: Resource Conservation and Recovery Act  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 SARA: Superfund Amendments & Reauthorization Act  
 STEL: Short Term Exposure Limit  
 TLV: Threshold Limit Values  
 TWA: Time Weighted Average  
 WHMIS: Workplace Hazardous Materials Identification System

**References**

- : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2006.
- 2. International Agency for Research on Cancer Monographs, searched 2007.
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2007 (Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheet from manufacturer.
- 5. California Proposition 65 List - June 1, 2007 version.

|  |  |
|--|--|
| <p><b>Prepared for:</b><br/>         Cummins Filtration<br/>         1200 Fleetguard Road<br/>         Cookeville, Tennessee, U.S.A., 38506<br/>         Phone (931) 526-9551<br/> <a href="http://www.fleetguard.com">http://www.fleetguard.com</a></p> |  |
| <p><b>Prepared by:</b><br/>         ICC The Compliance Center Inc.<br/>         Canada: 1-888-977-4834<br/>         USA: 1-888-442-9628<br/> <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>                     |  |

**DISCLAIMER OF LIABILITY**

The information in this MSDS was obtained from sources, which we believe are reliable. However, since the conditions of handling and use are beyond our control, we assume no liability for damages incurred by use of this material. This MSDS was prepared, and is to be used, for this product only. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist. If the product is used as a component in another product, this information may not be applicable. Users of this product should satisfy themselves that the conditions and methods of use assure the product is used safely. No representations or warranties, either expressed or implied, of any nature are made hereunder with respect to the information contained herein. It is the responsibility of the user to comply with any and all federal, state, or local laws and regulations that may exist. Nothing contained herein is to be construed as a recommendation for use in violation of any applicable laws or regulations.

**MSDS Preparation Date (dd/mm/yyyy)**

: 29/04/2006

**MSDS Reviewed Date (dd/mm/yyyy)**

: 16/08/2007

**Revision No.**

: 2

**Revision Information**

: (M)SDS sections updated: 2; 6; 7; 8.



**Cummins Filtration**  
1200 Fleetguard Road  
Cookeville, Tennessee, U.S.A., 38506  
Phone (931) 526-9551

---

**STABLEGUARD UREA 32**

MSDS Revision Date (dd/mm/yyyy): 16/08/2007

MSDS No.:LT16603

Page 7 of 7

**END OF DOCUMENT**