



**FLEET-TECH ASPHALTENE CONDITIONER CONCENTRATE**

MSDS No.:LT16606

MSDS Revision Date (dd/mm/yyyy): 11/05/2010

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**MATERIAL SAFETY DATA SHEET**

**SECTION 1: IDENTIFICATION**

**Product identifier** : **FLEET-TECH ASPHALTENE CONDITIONER CONCENTRATE**

**Product Code(s)** : CC2559 (bulk), CC2596 (2.5 gallon / 9.46 L bottle); CC2696 (2.5 gallon / 9.46 L - skid).

**Product Use** : Diesel fuel additive .

**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 #** : (931) 526-9551 (Hours of operation: 24 Hours per day, 7 days per week)

**24 Hr. Emergency Tel #** : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

**SECTION 2 - HAZARDS IDENTIFICATION**

**Classification** : WHMIS classification:  
Class B3 (Combustible Liquids);  
Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material);  
Class D2B (Materials Causing Other Toxic Effects, Toxic Material).

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification:  
Acute Health Hazard;  
Chronic Health Hazard;  
Combustible liquid .

**Emergency Overview** : Amber liquid. Petroleum hydrocarbon odour. Warning! Combustible liquid and vapor. May be harmful if inhaled. May cause respiratory irritation. May be harmful or fatal if swallowed. Aspiration hazard. Can enter the lungs and cause damage. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. May cause eye and skin irritation. Contains material which can cause damage to the blood system, the liver and the kidneys. Possible cancer hazard - contains material which may cause cancer.

**POTENTIAL HEALTH EFFECTS:**

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

*Inhalation* : May be harmful if inhaled. May cause irritation to the nose, throat and upper respiratory tract. If higher concentrations are inhaled, additional symptoms may include coughing, shortness of breath, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Excessive overexposure could cause liver, kidney and blood system effects (anemia).

*Skin* : May cause mild to moderate irritation. May be absorbed through the skin, producing symptoms similar to ingestion or inhalation.

*Eyes* : May cause mild to moderate irritation. Symptoms may include stinging and tearing.

*Ingestion* : Harmful if swallowed. May cause irritation of mouth, throat, and stomach. Ingestion of large amounts may cause nausea, vomiting, diarrhea, as well as depression of the central nervous system. Material is an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

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

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Repeated overexposure to naphthalene may cause destruction of red blood cells with anemia, fever, jaundice and kidney and liver damage.

**Carcinogenic status** : Cancer hazard. See TOXICOLOGICAL INFORMATION, Section 11.

**Additional health hazards** : See TOXICOLOGICAL INFORMATION, Section 11.

**Potential environmental effects** : See ECOLOGICAL INFORMATION, Section 12.



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**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Ingredients</u>	<u>CAS #</u>	<u>Wt.%</u>
Aromatic solvent	178535-25-6	15.00 - 40.00
1,3,5-Triethylbenzene	102-25-0	3.00 - 7.00
Petroleum naphtha	64742-94-5	15.00 - 40.00
Naphthalene	91-20-3	1.00 - 5.00
Trimethyl benzene	25551-13-7	1.00 - 5.00
1,2,4-Trimethylbenzene	95-63-6	0.10 - 1.00

**SECTION 4 - FIRST AID MEASURES**

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention.
- Skin contact** : Remove contaminated clothing. Wash off immediately with soap and plenty of water. If irritation persists, seek prompt medical attention. Launder clothing before reuse.
- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- Ingestion** : Do NOT induce vomiting. Seek immediate medical attention/advice. Never give anything by mouth to an unconscious person.
- Notes For Physician** : This product is a CNS depressant. Treat symptomatically.

**SECTION 5 - FIRE FIGHTING MEASURES**

**Fire hazards/conditions of flammability**

- : Combustible liquid and vapor. This material may be ignited by heat, sparks and direct flame. Vapours may be heavier than air and may collect in confined and low-lying areas. Material will float on water and can be re-ignited at the water's surface. 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)**

- : Combustible Liquid Class III A.

**Oxidizing properties**

- : None known.

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

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

**Suitable extinguishing media**

- : Use water fog or fine spray, foams, carbon dioxide or dry chemical. Do not use a solid water stream as it may scatter and spread fire.

**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 (NOx); Aldehydes; Sulphur oxides; other unidentified organic compounds.

**NFPA Rating**

- 0 - Minimal    1 - Slight    2 - Moderate    3 - Serious    4 - Severe  
: *Health:* 2    *Flammability:* 2    *Instability:* 0    *Special Hazards:* None

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**



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- Personal precautions** : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
- Spill response/cleanup** : Remove all sources of ignition. Ventilate area of release. Stop spill or leak at source if safely possible. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Use plastic or aluminum shovels to transfer absorbed waste material into drums. Use non-sparking tools. Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.
- Prohibited materials** : Use non-flammable absorbent only. Do not use combustible absorbents, such as sawdust.
- 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): Naphthalene (100 lbs / 45.4 kg).

**SECTION 7 - HANDLING AND STORAGE**

- Safe Handling procedures** : Wear suitable protective equipment during handling. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment. Use with adequate ventilation. Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. Wash with soap and water after handling. Keep away from extreme heat and flame. Keep away from acids and other incompatibles. Use caution when opening cap. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Keep out of the reach of children. Do not cut, weld, braze, solder, drill, or grind near containers. Do not dump unused contents into sewers, on the ground or into any body of water. Dispose of wastes in an approved waste disposal facility.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area. Equip bulk storage tank with overflow protection such as high level alarms or secondary containment.
- Incompatible materials** : Strong oxidizing agents (e.g. hydrogen peroxide, nitric acid) and strong acids.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

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

**Exposure Limits**

<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Aromatic solvent	N/Av	N/Av	N/Av	N/Av
1,3,5-Triethylbenzene	N/Av	N/Av	N/Av	N/Av
Petroleum naphtha	N/Av	N/Av	N/Av	N/Av
Naphthalene	10 ppm (skin)	15 ppm (skin)	10 ppm	N/Av
Trimethyl benzene	25 ppm	N/Av	*25 ppm	N/Av
1,2,4-Trimethylbenzene	*25 ppm	N/Av	*25 ppm	N/Av

\*Note: The OSHA PEL's and ACGIH TLV's listed above for 1,2,4-Trimethylbenzene are for 'Trimethylbenzene (mixed isomers)'. The OSHA PEL listed above for Trimethylbenzene is a final rule / vacated value.

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### Ventilation and engineering measures

- : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Local exhaust ventilation is preferred to prevent contaminant dispersion into work area.

### Respiratory protection

- : Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists. 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. Use self-contained breathing apparatus (SCBA) if large spill or leak occurs.

### Skin protection

- : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers. Note: Polyvinyl alcohol gloves are water-soluble and should not be used when there is a potential for water contact.

### Eye / face protection

- : Chemical splash goggles are recommended. A full face shield may also be necessary.

### Other protective equipment

- : Emergency showers and eyewash facilities should be nearby. Wear long sleeved shirt and pants to minimize exposed skin. Wear sufficient clothing to prevent skin contact. Do not wear rings, watches or jewelry that could entrap the material against the skin. 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.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	: Liquid.	<b>Appearance</b>	: Amber liquid.
<b>Odour</b>	: Petroleum hydrocarbon odour.	<b>Odour threshold</b>	: N/Av
<b>pH</b>	: N/Av		
<b>Boiling point</b>	: N/Av	<b>Specific gravity</b>	: 0.93 @ 15.6°C (60°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>	: Insoluble.
<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
<b>Flash point</b>	: > 62°C (143.6°F)		
<b>Flash point Method</b>	: PMCC - Minimum	<b>Auto-ignition temperature</b>	: N/Av
<b>Lower flammable limit (% by vol.)</b>	: N/Av	<b>Upper flammable limit (% by vol.)</b>	: N/Av
<b>Flame Projection Length</b>	: N/Av	<b>Flashback observed</b>	: N/Av

## Section 10: Stability And Reactivity

<b>Stability and reactivity</b>	: Stable under the recommended storage and handling conditions prescribed.
<b>Hazardous polymerization</b>	: Will not occur.
<b>Conditions to avoid</b>	: Avoid excessive heat, sparks and open flame. Do not use in areas without adequate ventilation.
<b>Materials To Avoid And Incompatibility</b>	: Incompatible materials (see Section 7).
<b>Hazardous decomposition products</b>	: None known, refer to hazardous combustion products in Section 5.

## SECTION 11 - TOXICOLOGICAL INFORMATION

<b>Target organs</b>	: Eyes, skin, respiratory system, central nervous system, blood system, liver, brain and kidneys.
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**Routes of exposure** : *Inhalation:* YES *Skin Absorption:* YES *Skin & Eyes:* YES *Ingestion:* YES

**Toxicological data** : Product (based on similar blends):  
LD50 (Rat, oral): >5000mg/kg (supplier)  
LD50 (Rabbit, dermal): >2000mg/kg (supplier)  
See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Aromatic solvent	N/Av	N/Av	N/Av
1,3,5-Triethylbenzene	N/Av	5000 mg/kg	N/Av
Petroleum naphtha	N/Av	> 5000 mg/kg	> 2 mL/kg
Naphthalene	N/Av	1780 mg/kg (rat); 533 mg/kg (mouse)	> 2500 mg/kg
Trimethyl benzene	N/Av	8970 mg/kg	N/Av
1,2,4-Trimethylbenzene	18,000 mg/m <sup>3</sup>	5000 mg/kg	N/Av

**Carcinogenic status** : Contains Naphthalene. Naphthalene is classified as carcinogenic by IARC (Group 2B) and NTP (Group 2 - Reasonably anticipated).

**Reproductive effects** : None known.

**Teratogenicity** : Not expected to be a teratogen.

**Mutagenicity** : None known.

**Epidemiology** : Not available.

**Sensitization to material** : Not expected to be a skin or respiratory sensitizer.

**Synergistic materials** : Not available.

**Irritancy** : Mild to moderate irritation.

**other important hazards** : CNS depression may result from extreme exposures.

**Conditions aggravated by overexposure**

: Pre-existing skin, eye and respiratory disorders.

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity** : No data is available on the product itself. 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. This product contains marine pollutants. Contains: Triethylbenzene . This product contains the following substance which may also be hazardous for the environment: Naphthalene; Trimethylbenzene; 1,2,4-Trimethylbenzene.

The acute toxicity of Naphthalene is (IUCLID):

Toxicity to fish - LC50/96h/rainbow trout = 0.11 mg/L

Toxicity to daphnia - LC50/48h/daphnia = 2.16 mg/L

Toxicity to algae - EC50/72h/algae = 0.4 mg/L

The acute toxicity of trimethylbenzene is (Chemical Evaluation Search and Retrieval System):

Toxicity to fish - LC50/96h/fathead minnows = 7.72 mg/L

The acute toxicity of 1,2,4-trimethylbenzene is (IUCLID):

Toxicity to fish - LC50/96h/fathead minnows = 7.72 mg/L

Toxicity to daphnia - EC50/48h/daphnia = 6.14 mg/L

**Mobility** : No data is available on the product itself.

**Persistence** : No data is available on the product itself. Contains: Naphthalene; Trimethylbenzene; 1,2,4-Trimethylbenzene. Naphthalene, Trimethylbenzene and 1,2,4-Trimethylbenzene are not expected to be rapidly biodegradable.

**Bioaccumulation potential** : No data is available on the product itself. 25% or greater of the components potentially bioconcentrate, based on octanol / water coefficients.

**Other Adverse Environmental effects**

: No data is available on the product itself.



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**SECTION 13 - DISPOSAL CONSIDERATIONS**

- Handling for Disposal** : Handle waste according to recommendations in Section 7. Do not cut, weld, drill or grind on or near this container.
- 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: TRANSPORT INFORMATION**

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
49CFR/DOT	NA1993	Combustible liquid, n.o.s. (Contains: Petroleum naphtha; Naphthalene)	Combustible.	III	
<b>49CFR/DOT Additional information</b>	Not regulated for road or rail shipment if packaged in non-bulk containers (450 L / 119 Gallons or less each). The 'label' appearing here is the placard to be used for bulk shipments. RQ should be added to the shipping name when there is more than 100 lbs (45.4 kg) of Naphthalene per package. This product contains marine pollutants. If shipping non-bulk containers by sea, refer to IMDG shipping information.				
TDG	None	Not regulated.	Not regulated	none	
<b>TDG Additional information</b>	Not regulated for transport by ground, unless intended for marine transport.				
ICAO/IATA	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Triethylbenzene; Naphthalene)	9	III	
<b>ICAO/IATA Additional information</b>	Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material.				
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triethylbenzene; Naphthalene)	9	III	
<b>IMDG Additional information</b>	"Marine pollutant" must be included with the shipping description on documentation. The Marine Pollutant mark must appear on packagings holding 5 Litres or more of the material. May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.				

**SECTION 15 - REGULATORY INFORMATION**

**US Federal Information:**

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

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): Naphthalene (100 lbs / 45.4 kg).



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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: Fire Hazard; Immediate (Acute) health hazard; Chronic health hazard. 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 product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: Naphthalene.

**US State Right to Know Laws:**

New Jersey Labeling Requirements: This product contains the following substances required to be disclosed on product labeling: Petroleum naphtha (CAS # 64742-94-5); Aromatic solvent (CAS # 178535-25-6); 1,3,5-Triethylbenzene (CAS # 102-25-0); Naphthalene (CAS # 91-20-3); Trimethylbenzene (CAS # 25551-13-7).

California Proposition 65: This product contains chemicals known to the State of California to cause cancer and/or reproductive harm. This product contains: Naphthalene. This product may contain trace levels of the following ingredients: Ethylbenzene (< 0.1%); Toluene (< 0.1%); Cumene (< 0.1%); Benzene (< 10 ppm).

**International Information:**

WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). Refer to Section 2 for a WHMIS Classification for this product.

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

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

**SECTION 16 - OTHER INFORMATION**

<b>HMIS Rating</b>	:	<b>* - Chronic hazard</b>	<b>0 - Minimal</b>	<b>1 - Slight</b>	<b>2 - Moderate</b>	<b>3 - Serious</b>	<b>4 - Severe</b>
		<i>Health: *2</i>		<i>Flammability: 2</i>		<i>Reactivity: 0</i>	

**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  
CNS: Central Nervous System  
CSA: Canadian Standards Association  
DOT: Department of Transportation  
EPA: Environmental Protection Agency  
HMIS: Hazardous Materials Identification System  
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  
LC: Lethal Concentration  
LD: Lethal Dose  
N/Ap: Not Applicable  
N/Av: Not Available  
NFPA: National Fire Protection Association  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
PMCC: Pensky Martens Closed Cup



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RCRA: Resource Conservation and Recovery Act  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and 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 2009.
- 2. International Agency for Research on Cancer Monographs, searched 2010.
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2010 (Chempendium and RTECs).
- 4. Material Safety Data Sheet from manufacturer.
- 5. US EPA Title III List of Lists - October 2006 version.
- 6. California Proposition 65 List - April 2, 2010 version.

<p><b><u>Prepared for:</u></b> Cummins Filtration Cookeville, Tennessee, U.S.A., 38506 Telephone: (931) 526-9551 <a href="http://www.cumminsfiltration.com/html/en/index.html">http://www.cumminsfiltration.com/html/en/index.html</a> Please direct all enquiries to Cummins Filtration.</p>	
<p><b><u>Prepared by:</u></b> ICC The Compliance Center Inc. <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

**DISCLAIMER OF LIABILITY**

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

: 28/04/2006

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

: 11/05/2010

**Revision No.**

: 2

**Revision Information**

- : Sections 2 and 3, switched.
- (M)SDS sections updated:
  - 2. HAZARDS IDENTIFICATION;
  - 3. COMPOSITION/INFORMATION ON INGREDIENTS;
  - 5. FIRE-FIGHTING MEASURES;
  - 8. EXPOSURE CONTROLS / PERSONAL PROTECTION;
  - 9. PHYSICAL AND CHEMICAL PROPERTIES;
  - 11. TOXICOLOGICAL INFORMATION;
  - 15. REGULATORY INFORMATION.

**END OF DOCUMENT**