

## SAFETY DATA SHEET

#### 1. Product and Company Identification

Product identifier Easy Seal Direct Inject (4050-08)

Other means of identification Not available

Recommended use Refrigerant leak sealant

**Recommended restrictions**None known. **Manufacturer**Nu-Calgon

2008 Altom Court St. Louis, MO 63146 US

Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)

#### 2. Hazards Identification

Physical hazardsFlammable liquidsCategory 3Health hazardsSkin corrosion/irritationCategory 2Serious eve damage/eve irritationCategory 2A

Serious eye damage/eye irritation Category 2A
Reproductive toxicity (the unborn child) Category 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Flammable liquid and vapor.

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of damaging the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statement

Storage

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary

measures against static discharge. Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood.

Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face

protection.

**Response** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash

before reuse.

In case of fire: Use appropriate media to extinguish.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor if you feel unwell.

If exposed or concerned: Get medical advice/attention. Specific treatment (see this label). Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

Not applicable.

#### 3. Composition/Information on Ingredients

Mixture	
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Chemical name	Common name and synonyms	CAS number	%
Triethoxy(vinyl)silane		78-08-0	73 - 77
Ethanol		64-17-5	24 - 27
Toluene		108-88-3	0.1 - 1.5

#### 4. First Aid Measures

Inhalation If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor if you feel unwell.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If Skin contact

skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash

before reuse.

Eye contact If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur. Never give Ingestion

anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

**General information** 

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. Vapors have a narcotic effect and may cause headache, fatique, dizziness and nausea. May cause redness and pain. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

#### 5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire-fighting

equipment/instructions Specific methods

General fire hazards

Hazardous combustion products

**Explosion data** 

Sensitivity to mechanical

impact

Sensitivity to static discharge

Alcohol resistant foam. Water fog. Dry chemical powder.

Do not use water jet as an extinguisher, as this will spread the fire.

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source

of ignition and flash back. During fire, gases hazardous to health may be formed. Firefighters should wear a self-contained breathing apparatus.

Firefighters should wear full protective clothing including self contained breathing apparatus. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Flammable liquid and vapor.

May include and are not limited to: Oxides of carbon.

Not available.

Not available.

#### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

# Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and Storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Use only with adequate ventilation. Do not breathe mist or vapor. Avoid contact during pregnancy/while nursing. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use personal protective equipment as required. When using, do not eat, drink or smoke. Wash thoroughly after handling. Keep container tightly closed.

# Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a closed container away from incompatible materials. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers. Keep out of reach of children.

Value

1900 mg/m3 1000 ppm

560 mg/m3 150 ppm 375 mg/m3

100 ppm

#### 8. Exposure Controls/Personal Protection

#### Occupational exposure limits

Components

US. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910.1000)
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**Type** 

**TWA** 

**STEL** 

**TWA** 

Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
US. OSHA Table Z-2 (29 CFR 191	0.1000)		
Components	Туре	Value	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	

#### **Biological limit values**

Ethanol (CAS 64-17-5)

Toluene (CAS 108-88-3)

#### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

<sup>\* -</sup> For sampling details, please see the source document.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields.

Skin protection

Rubber gloves. Confirm with a reputable supplier first. Hand protection

Other Wear appropriate chemical resistant clothing. As required by employer code.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

Thermal hazards Not applicable.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Wash hands before breaks and immediately after handling the product. When using do not eat or drink.

#### 9. Physical and Chemical Properties

Clear **Appearance** Physical state Liquid. **Form** Liquid. Color Slight green Odor Alcohol to Toluene Odor threshold Not available. Not available. Ηа Melting point/freezing point Not available. Initial boiling point and boiling 143.06 °F (61.7 °C)

range Pour point

Not available. Specific gravity Not available. **Partition coefficient** Not available.

(n-octanol/water)

100.0 °F (37.8 °C) Flash point < 1 (BuAc = 1)**Evaporation rate** Not applicable Flammability (solid,gas) Upper/lower flammability or explosive limits Not available.

Flammability limit - lower

(%)

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density 0.91 (water = 1)Relative density Not available. Solubility(ies) Not available.

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** Not available.

#### 10. Stability and Reactivity

This product may react with strong oxidizing agents. Reactivity

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Do not mix with other chemicals.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

**Ingestion** Expected to be a low ingestion hazard.

**Inhalation** Prolonged inhalation may be harmful. Vapors have a narcotic effect and may cause headache,

fatigue, dizziness and nausea.

May cause damage to organs by inhalation.

Skin contact Causes skin irritation.

**Eye contact** Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting.

Information on toxicological effects

Acute toxicity Narcotic effects. May cause respiratory irritation.

Components Species Test Results

Ethanol (CAS 64-17-5)

**Acute**Dermal

LD50 Not available

Inhalation

LC50 Mouse 39 mg/l, 4 Hours

Rat 31623 ppm, 4 Hours

20000 ppm, 10 Hours

Oral

LD50 Dog 5 500 mg/kg

 Guinea pig
 5600 mg/kg

 Mouse
 3450 mg/kg

 Rat
 7060 mg/kg

Toluene (CAS 108-88-3)

Acute

Dermal

LD50 Rabbit 12196 mg/kg 12125 mg/kg

8390 mg/kg 14.1 ml/kg

Inhalation

LC50 Mouse 7100 mg/l, 4 Hours

5320 ppm, 8 Hours 400 ppm, 24 Hours 26700 ppm, 1 Hours

Rat 26700 ppm, 1 Hou

<= 28800 mg/m³, 4 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours

12.5 mg/l/4h

Oral

LD50 Rat > 5580 mg/kg

636 mg/kg

Triethoxy(vinyl)silane (CAS 78-08-0)

Acute

Dermal

LD50 Rabbit 9100 mg/kg

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**Test Results** Components **Species** 

Inhalation

LC50 Not available

Oral

LD50 Not available

Causes skin irritation. Skin corrosion/irritation

**Exposure minutes** Not available. Erythema value Not available. Not available. Oedema value

Serious eye damage/eye

irritation

Causes serious eye irritation.

Not available. Corneal opacity value Not available. Iris lesion value Conjunctival reddening Not available.

Conjunctival oedema value Not available. Recover days Not available.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Non-hazardous by WHMIS/OSHA criteria. Germ cell mutagenicity Non-hazardous by WHMIS/OSHA criteria. Mutagenicity

Not classified or listed by IARC, NTP, OSHA and ACGIH. Carcinogenicity

**ACGIH Carcinogens** 

Toluene (CAS 108-88-3) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethanol (CAS 64-17-5) Volume 44, Volume 96, Volume 100E

Volume 96, Volume 100E

Toluene (CAS 108-88-3) Volume 47, Volume 71 - 3 Not classifiable as to carcinogenicity to

humans.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Ethanol (CAS 64-17-5) Carcinogenic.

Reproductive toxicity Possible reproductive hazard. Suspected of damaging the unborn child.

Toluene (benzene, methyl-) has caused fetotoxicity (reduced fetal weight), behavioural effects **Teratogenicity** 

(effects on learning and memory) and hearing loss (in males). These effects have been observed in the offspring of rats exposed by inhalation to 1200 or 1800 ppm toluene. These effects were

observed in the absence of maternal toxicity.

Specific target organ toxicity -

single exposure

Respiratory tract irritation. Narcotic effects.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Not available. **Aspiration hazard** 

**Chronic effects** Prolonged inhalation may be harmful. May cause damage to organs through prolonged or

repeated exposure.

Not available. **Further information** Name of Toxicologically Not available.

**Synergistic Products** 

# 12 Ecological Information

12. Ecological information			
Ecotoxicity	See below		
Components		Species	Test Results
Ethanol (CAS 64-17-5)			
Crustacea	EC50	Daphnia	11744.5 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales pron	nelas) > 100 mg/l, 96 hours

Components Species Test Results

Toluene (CAS 108-88-3)

 Algae
 IC50
 Algae
 433 mg/L, 72 Hours

 Crustacea
 EC50
 Daphnia
 7.645 mg/L, 48 Hours

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 5.46 - 9.83 mg/l, 48 hours

Fish LC50 Coho salmon, silver salmon 8.11 mg/l, 96 hours

(Oncorhynchus kisutch)

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

**Disposal instructions**Dispose of contents/container in accordance with local/regional/national/international regulations.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

US RCRA Hazardous Waste U List: Reference

Toluene (CAS 108-88-3) U220

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

#### 14. Transport Information

#### **U.S. Department of Transportation (DOT)**

**Basic shipping requirements:** 

UN number UN1993

**Proper shipping name** Flammable liquids, n.o.s. (Ethanol RQ = 400 LBS)

Hazard class Limited Quantity - US

Packing group

Special provisions B1, B52, IB3, T4, TP1, TP29

Packaging exceptions 150
Packaging non bulk 203
Packaging bulk 242

Transportation of Dangerous Goods (TDG - Canada)

**Basic shipping requirements:** 

UN number UN1993

Proper shipping name FLAMMABLE LIQUID, N.O.S. (Ethanol)

Hazard class Limited Quantity - Canada

Packing group III Special provisions 16

IATA/ICAO (Air)

**Basic shipping requirements:** 

UN number UN1993

Proper shipping name Flammable liquid, n.o.s. (Ethanol)

Hazard class Limited Quantity - IATA

Packing group III

**IMDG (Marine Transport)** 

**Basic shipping requirements:** 

UN number UN1993

Proper shipping name FLAMMABLE LIQUID, N.O.S. (Ethanol)

Hazard class Limited Quantity - US

Packing group III





### 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Ethanol (CAS 64-17-5) 1 TONNES Toluene (CAS 108-88-3) 1 TONNES

Canada WHMIS Ingredient Disclosure: Threshold limits

Ethanol (CAS 64-17-5) 0.1 % Toluene (CAS 108-88-3) 1 %

WHMIS status Controlled

WHMIS classification Class B - Division 3 - Combustible Liquid, Class D - Division 2A, 2B

WHMIS labeling





US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Toluene (CAS 108-88-3) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Toluene (CAS 108-88-3) Listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US CWA Section 311 Hazardous Substances: Listed substance

Toluene (CAS 108-88-3) Listed.

US CWA Section 307(a)(1) Toxic Pollutants: Listed substance

Toluene (CAS 108-88-3) Listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Toluene (CAS 108-88-3)

US CAA Section 111 Volatile Organic Compounds: Listed substance

Ethanol (CAS 64-17-5)

Toluene (CAS 108-88-3)

Listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Toluene (CAS 108-88-3) Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

 Chemical name
 CAS number
 % by wt.

 Toluene
 108-88-3
 0.1 - 1.5

Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug
Administration (FDA)

Not regulated.

US state regulations

WARNING: This product contains a chemical known to the State of California to cause birth

defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Ethanol (CAS 64-17-5) Listed. Toluene (CAS 108-88-3) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Ethanol (CAS 64-17-5) Listed. Toluene (CAS 108-88-3) Listed.

**US - Illinois Chemical Safety Act: Listed substance** 

Ethanol (CAS 64-17-5) Listed. Toluene (CAS 108-88-3) Listed.

US - Louisiana Spill Reporting: Listed substance

Ethanol (CAS 64-17-5) Listed.
Toluene (CAS 108-88-3) Listed.
US - Michigan Critical Materials Register: Parameter number

Toluene (CAS 108-88-3) 00108-88-3 Listed.

**US - Minnesota Haz Subs: Listed substance** 

Ethanol (CAS 64-17-5) Listed. Toluene (CAS 108-88-3) Listed.

US - New Jersey RTK - Substances: Listed substance

Ethanol (CAS 64-17-5) Listed. Toluene (CAS 108-88-3) Listed.

US - New York Release Reporting: Hazardous Substances: Listed substance

Toluene (CAS 108-88-3) Listed. **US - North Carolina Toxic Air Pollutants: Listed substance**Toluene (CAS 108-88-3) Listed.

**US - Texas Effects Screening Levels: Listed substance** 

Ethanol (CAS 64-17-5) Listed. Toluene (CAS 108-88-3) Listed.

US - Washington Chemical of High Concern to Children: Listed substance

Toluene (CAS 108-88-3) Listed.

**US. Massachusetts RTK - Substance List** 

Ethanol (CAS 64-17-5) Listed. Toluene (CAS 108-88-3) Listed.

US. Pennsylvania RTK - Hazardous Substances

Ethanol (CAS 64-17-5) Listed. Toluene (CAS 108-88-3) Listed.

**US. Rhode Island RTK** 

Toluene (CAS 108-88-3) Listed.

Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)No

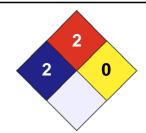
Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

#### 16. Other Information

LEGEND	
Severe	4
Serious Moderate	3 2
Slight	1
Minimal	0





Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date15-December-2014Effective date15-December-2014Expiry date15-December-2017

**Further information** For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Prepared by Nu-Calgon Technical Service Phone: (314) 469-7000

Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication

Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).