

# MATERIAL SAFETY DATA SHEET

*CELOGEN® 754A*

**Version:** 1.8  
**Date of Issue:** 06/23/2007  
**Date printed:** 06/23/2007

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## 1. PRODUCT AND COMPANY IDENTIFICATION

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**Product name :** CELOGEN® 754A

**Chemical name:** Azodicarbonamide formulation

**Use of substance/preparation:** Foaming Agent

**Supplier:** Lion Copolymer Geismar, LLC.  
-  
36191 Louisiana Highway 30  
Geismar, LA 70734 USA

**Emergency telephone number:** CHEMTREC : 800-424-9300 (For USA, and Canada)  
CHEMTREC: 703-527-3887 (For all other Countries) -  
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**Environmental, Health and Safety Department:** US-225-673-8871 or 225-267-3608

**Prepared by** Supply Chain Date of Issue: 06/23/2007  
(US) +1 800-535-9960  
(Outside of the US) 1 + 225-267-3788  
Email: CustomerService@Lioncopolymer.com

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## 2. HAZARDS IDENTIFICATION

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### EMERGENCY OVERVIEW

#### CAUTION!

MAY CAUSE EYE IRRITATION.  
MAY CAUSE SENSITIZATION BY INHALATION.  
REPEATED EXPOSURE MAY CAUSE SENSITIZATION OF THE RESPIRATORY TRACT AND THE DEVELOPMENT OF AN ASTHMATIC REACTION ON FURTHER EXPOSURE.  
VAPOR GENERATED AT HIGH TEMPERATURE (THERMAL DEGRADATION) CAN BE IRRITATING.  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE  
- AN EXISTING LUNG DISEASE  
AVOID DISPERSION OF DUST IN AIR TO REDUCE POTENTIAL FOR DUST IGNITION/EXPLOSIONS.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

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INGREDIENT	% BY WEIGHT
Azodicarbonamide CAS# 123-77-3	90
Zinc compound CAS# Trade secret	10

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## 4. FIRST AID MEASURES

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### Swallowing

Do not induce vomiting. Rinse mouth and then drink water. Obtain medical attention.

### Inhalation

Remove to fresh air. Obtain medical attention.

### Skin contact

Remove contaminated clothing. Wash thoroughly with warm water using a mild soap. Obtain medical attention if irritation persists.

### Eye contact

Immediately flush eyes with water and continue washing for several minutes. Obtain medical attention if irritation persists.

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## 5. FIRE-FIGHTING MEASURES

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Flammable limits

**Lower limit:** Not available

**Upper limit:** Not available

**Autoignition temperature:**

**Bulk quantities may self ignite if heated.**

### Hazardous combustion products

Toxic fumes.

Ammonia.

Oxides of nitrogen.

Oxides of carbon.

Traces of incompletely burned carbon products.

### Special fire fighting procedures

Evacuate all personnel from danger area.

Avoid dusting when handling and avoid all possible sources of ignition (spark or flame).

Use water spray to cool fire-exposed containers and structures.

### Special protective equipment for firefighters

Self-contained breathing apparatus.

Full protective clothing

### Extinguishing media

**Suitable:** - water spray  
- dry chemical

### Unusual fire and explosion hazards

Heated containers may explode. Once ignited, this product will burn vigorously and with acceleration.

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## 6. ACCIDENTAL RELEASE MEASURES

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### Personal precautions

Avoid all contact.

### Environmental precautions

Avoid discharge to sewers or natural waters.

### Methods for cleaning up

Avoid dispersion of dust.

Eliminate sources of ignition.

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Collect in a suitable container for disposal.  
Dispose of waste material in compliance with all federal, state, and local regulations.  
Sweep up using non-sparking equipment.

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## 7. HANDLING AND STORAGE

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### HANDLING

#### Handling precautions

Avoid dispersion of dust to reduce fire and explosion potential., Take precautionary measures against static discharges.

### STORAGE

#### Storage requirements

Keep away from heat, sparks and flame., Store in a cool, dry and well-ventilated area., Keep container tightly closed.

#### Further information on storage

Separate from combustible storage by 8 ft. aisles or isolate in a detached building. Do not store over 4 ft. high unless sprinklers are hydraulically designed to produce a density of 0.5 gpm/sq. ft. over the entire area., Maximum Storage Temperature., 55° C (131° F)

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### EXPOSURE LIMIT VALUES

<u>Component</u>	<u>Country</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Azodicarbonamide				No other exposure limits have been established

### PERSONAL PROTECTION

#### Respiratory protection

In case of occurrence of dust respiratory protective equipment required.

#### Hand protection / protective gloves

Chemical resistant protective gloves

#### Eye protection

Safety glasses with side shields.

#### Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact.

### ENGINEERING CONTROLS

#### Ventilation

Local exhaust suggested to prevent dust buildup.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### APPEARANCE

Physical state	Powder
Color	Orange-yellow
Odor	Characteristic
Odor threshold	Not available

### OTHER PROPERTIES

Boiling point	Not applicable
Melting point	327 - 356 °F Decomposes

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<b>Solidification</b>	Not available
<b>pH</b>	Not available
<b>Specific gravity (H2O=1)</b>	Not available
<b>Density</b>	1.68 g/cm3
<b>Vapor pressure</b>	
<b>Solubility in water</b>	Slightly soluble, Decomposes in alkaline solution.
<b>Solubility in organic solvents</b>	No data available.
<b>Partitioning coefficient</b>	Not available
<b>Flash point</b>	Decomposes
<b>Thermal decomposition</b>	Decomposes without ignition., Bulk quantities may self ignite if heated.
<b>Autoignition temperature</b>	Bulk quantities may self ignite if heated.
<b>Upper explosion limits</b>	Not available
<b>Lower explosion limits</b>	Not available
<b>Percent volatiles</b>	Not available

### 10. STABILITY AND REACTIVITY

**Stability:** This product is stable only when stored at, or below, the recommended maximum temperature.

**Incompatible materials:**

Metallic compounds  
 Acids.  
 Bases.  
 Strong oxidizing agents.

**Hazardous reactions:** Keep away from heat.

**Hazardous combustion products:**

Toxic fumes.  
 Ammonia.  
 Oxides of nitrogen.  
 Oxides of carbon.  
 Traces of incompletely burned carbon products.

**Hazardous polymerization:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

Component data Azodicarbonamide Acute toxicity - Swallowing:	LD50 - Rat Result: 6,800 mg/kg
Component data Azodicarbonamide Acute toxicity - Skin absorption:	LD50 - Rabbit Result: > 2,000 mg/kg
Component data Azodicarbonamide	LC50 - Rat Result: > 200 mg/l

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Acute toxicity - Inhalation:	
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<u>Component data</u> Azodicarbonamide Skin irritation - Skin contact:	Species: Rabbit Result: Non irritating.
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<u>Component data</u> Azodicarbonamide Eye irritation - Eye contact:	Species: Rabbit Result: Slight
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<u>Component data</u> Azodicarbonamide Sensitization:	Species: Guinea pigs Result: Negative
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<u>Component data</u> Azodicarbonamide Sensitization:	Species: Human Result: Positive
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## MUTAGENICITY

<u>Component data</u> Azodicarbonamide <u>Genetic toxicity in vitro - Mutagenicity:</u>	Test type: Ames bacterial assay Result: Positive
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## MUTAGENICITY

<u>Component data</u> Azodicarbonamide <u>Genetic toxicity in vitro - Mutagenicity:</u>	Test type: Unscheduled DNA synthesis (UDS) Result: Negative
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## MUTAGENICITY

<u>Component data</u> Azodicarbonamide <u>Genetic toxicity in vitro - Mutagenicity:</u>	Test type: Chinese Hamster Ovary (CHO) Result: Negative
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## 12. ECOLOGICAL INFORMATION

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<u>Component ecotoxicology</u> Azodicarbonamide <u>Acute toxicity fish:</u>	EC50 - Fathead minnow ( <i>Pimephales promelas</i> ) Result: > 50 mg/l Exposure time: 48 h
<u>Component ecotoxicology</u> Azodicarbonamide <u>Acute toxicity to aquatic invertebrates:</u>	EC50 - Water flea ( <i>Daphnia magna</i> ) Result: 11 mg/l Exposure time: 48 h

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## 13. DISPOSAL CONSIDERATIONS

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**General:** Dispose of in accordance with appropriate Federal, State, and local regulations., Avoid discharge to sewers and natural waters.

**US waste**  
In accordance with EPA/RCRA 40 CFR261.21 (a) (2) Ignitability, D001.

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## 14. TRANSPORT INFORMATION

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## DOT Classification

**Proper shipping name:** Self-reactive solid Type E  
**Class:** 4.1  
**UN ID #:** UN3228

## IMDG Classification

**Proper shipping name:** Self-reactive solid Type E  
**Class:** 4.1  
**UN ID #:** UN 3228

## ICAO Classification

FORBIDDEN BY AIR

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## 15. REGULATORY INFORMATION

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Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Zinc compound	Trade secret	10.00

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Zinc compound	Trade secret	10.00

Massachusetts Right-To-Know Substance List (MSL)--Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Zinc compound	Trade secret	10.00

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
Azodicarbonamide	123-77-3	
Zinc compound	Trade secret	

## CHEMICAL INVENTORY

Canada: This product is on the DSL.  
Europe: Product is not on EINECS.  
United States: This product is on the TSCA inventory.  
Australia: This product is on the AICS inventory.  
China: This product is on the IECSC Inventory.  
Japan: This product is on the ENCS inventory.  
Korea: This product is not listed on the Existing Chemicals List (ECL).  
Philippines: This product is not listed or exempt from listing on the Philippines Inventory of Chemicals and Chemical Substances (PICCS).

Food additive  
Not applicable

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Food contact  
Not applicable

Cosmetics  
Not applicable

Pharmaceuticals  
Not applicable

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## 16. OTHER INFORMATION

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### HMIS RATING

<b>Health: 2</b>	<b>Flammability: 4</b>	<b>Reactivity: 1</b>	<b>PPI: X</b>
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STP	Standard temperature and pressure
W/W	Weight/Weight 0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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