

MATERIAL SAFETY DATA SHEET

CELOGEN® 760A

Version: 1.4

Date of Issue: 04/18/2011

Date printed: 04/18/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CELOGEN® 760A

Chemical name: Azodicarbonamide Modified

Use of substance/preparation: Used in polymer processing and modification.

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)

Environmental, Health and Safety Department: US-225-673-8871 or 225-267-3608

Prepared by Supply Chain
(US) +1 800-535-9960
(Outside of the US) 1 + 225-267-3788
Email: CustomerService@Lioncopolymer.com

2. HAZARDS IDENTIFICATION

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	% BY WEIGHT
Azodicarbonamide CAS# 123-77-3	60
Silicon dioxide CAS# 7631-86-9	40

MATERIAL SAFETY DATA SHEET

CELOGEN® 760A

Version: 1.4
Date of Issue: 04/18/2011
Date printed: 04/18/2011

4. FIRST AID MEASURES

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.

5. FIRE-FIGHTING MEASURES

Flash point: 392 °F 200 °C
Flammable limits
Lower limit: Not available
Upper limit: Not available
Autoignition temperature: Not available

NFPA CLASSIFICATION

Health: 2	Flammability: 3	Reactivity: 1	Special provisions: No data available.
------------------	------------------------	----------------------	---

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid all contact.

Environmental precautions

Avoid discharge to sewers or natural waters.

Methods for cleaning up

MATERIAL SAFETY DATA SHEET

CELOGEN® 760A

Version: 1.4

Date of Issue: 04/18/2011

Date printed: 04/18/2011

Avoid dispersion of dust.
Eliminate sources of ignition.
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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

Component	Country	Type	Value	Remark
Azodicarbonamide				No other exposure limits have been established
Silicon dioxide	USA	TWA, OSHA	5 mg/m3	Respirable dust
		TWA, OSHA	15 mg/m3	Total dust
		TWA, ACGIH	10 mg/m3	Total dust

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Powder
Color	Yellow
Odor	Characteristic
Odor threshold	Not available

OTHER PROPERTIES

(M)SDS# 000000010769

CELOGEN® 760A

Version: 1.4
Date of Issue: 04/18/2011
Date printed: 04/18/2011

Boiling point	Not available
Melting point	392 - 419 °F Decomposes
Solidification	Not available
pH	Not available
Specific gravity (H2O=1)	Not available
Density	2.06 g/cm ³ at 25 °C
Solubility in water	Slightly soluble, Decomposes in alkaline solution.
Solubility in organic solvents	No data available.
Partitioning coefficient	Not available
Flash point	392 °F 200 °C Decomposes
Thermal decomposition	Decomposes without ignition., Bulk quantities may self ignite if heated.
Autoignition temperature	Not available
Upper explosion limits	Not available
Lower explosion limits	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 Semicarbazide additive Acute toxicity - Swallowing:	LD50 - Rat Result: > 10,000 mg/kg

MATERIAL SAFETY DATA SHEET

CELOGEN® 760A

Version: 1.4
Date of Issue: 04/18/2011
Date printed: 04/18/2011

Component data Azodicarbonamide Acute toxicity - Skin absorption:	LD50 - Rabbit Result: > 2,000 mg/kg
Component data Azodicarbonamide Acute toxicity - Inhalation:	LC50 - Rat Result: > 200 mg/l
Component data Azodicarbonamide Skin irritation - Skin contact:	Species: Rabbit Result: Non irritating.
Component data Semicarbazide additive Skin irritation - Skin contact:	Species: Rabbit Result: Not irritating
Component data Azodicarbonamide Eye irritation - Eye contact:	Species: Rabbit Result: Slight
Component data Semicarbazide additive Eye irritation - Eye contact:	Species: Rabbit Result: Not irritating
Component data Azodicarbonamide Sensitization:	Species: Guinea pigs Result: Negative
Component data Azodicarbonamide Sensitization:	Species: Human Result: Positive

MUTAGENICITY

Component data Azodicarbonamide Genetic toxicity in vitro - Mutagenicity:	Test type: Ames bacterial assay Result: Positive
MUTAGENICITY	
Component data Azodicarbonamide Genetic toxicity in vitro - Mutagenicity:	Test type: Unscheduled DNA synthesis (UDS) Result: Negative
MUTAGENICITY	
Component data Azodicarbonamide Genetic toxicity in vitro - Mutagenicity:	Test type: Chinese Hamster Ovary (CHO) Result: Negative

12. ECOLOGICAL INFORMATION

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

MATERIAL SAFETY DATA SHEET

CELOGEN® 760A

Version: 1.4
Date of Issue: 04/18/2011
Date printed: 04/18/2011

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT Classification

This product is not regulated by DOT.

IMDG Classification

Proper shipping name: Azodicarbonamide mixture
Class: 4.1
UN ID #: UN 3242
Packing group: II

ICAO Classification
FORBIDDEN BY AIR.

15. REGULATORY INFORMATION

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:
**** NONE ****

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:
**** NONE ****

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

Chemical name	CAS#	New Jersey TS Number
Azodicarbonamide	123-77-3	
Silicon dioxide	7631-86-9	

EPA Hazard Categories (SARA 311, 312): Immediate Health Hazard

California Proposition 65

**** NONE ****

CHEMICAL INVENTORY

Canada: This product is on the DSL.
Europe: The ingredients of this mixture are on the EINECS inventory.
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 listed on the Existing Chemicals List (ECL).
Philippines: This product is on the PICCS.

MATERIAL SAFETY DATA SHEET

CELOGEN® 760A

Version: 1.4
Date of Issue: 04/18/2011
Date printed: 04/18/2011

Food contact

21CFR172.806 Azodicarbonamide As an aging and bleaching ingredient in flour in an amount not to exceed 45 ppm. 21CFR175.300 Resinous and Polymeric Coatings Not to exceed amount required to achieve the desired effect in paper and paperboard products. 21CFR177.1210 Closures with Sealing gaskets for Food containers Additives not to exceed 2 wt% of gasket composition. 21CFR177.2600 Rubber Articles Intended for repeated uses Not to exceed 5 wt% of composition 21CFR178.3010 Adjuvant substances used in the manufacture of foamed plastics. As a blowing agents in the manufacture of polyethylene complying with 21CFR177.1520 at a level not to exceed 5 wt% of the finished polyethylene. As a blowing agents in the manufacture of polyethylene complying with 21CFR177.1520 at a level not to exceed 5 wt% of the finished polyethylene.

16. OTHER INFORMATION

HMIS RATING

Health: 2	Flammability: 3	Reactivity: 1	PPI: X
------------------	------------------------	----------------------	---------------

STP	Standard temperature and pressure
0 (HMIS)	No hazard
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

Copyright
2011 Lion
Copolymer
Geismar,

LLC

THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN LION COPOLYMER GEISMAR, LLC. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND OF THESE OPINIONS AND THE CONDITIONS OF USE OF THIS PRODUCT ARE NOT WITHIN THE CONTROL OF LION COPOLYMER GEISMAR, LLC, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCTS.