

CELOGEN[®] 754A**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : CELOGEN[®] 754A

Chemical name: Azodicarbonamide Mixture

Use of substance/preparation: Foaming Agent

Supplier: CelChem LLC
6519 Carema Lane
Naples, FL 34113 USA

Emergency telephone number: INFOTRAC 24 hour numbers:
USA & Canada: **1-800-535-5053**
Mexico: **01-800-681-1530**
Outside North America: **+1-352-323-3500** (collect)

Contact: 239-228-2285
Email: customerservice@celchemllc.com

2. HAZARDS IDENTIFICATION

United States (US): According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture:

Self-reactive solid Type D

Combustible Dust

Respiratory sensitization – Category 1 – H334

Eye Irritant – Category 2 - H319

Label Elements

Pictogram:



Signal Word:
Danger

Hazard Statement(s):

Heating may cause a fire.

May form combustible dust concentrations in air.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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Causes serious eye irritation.

Precautionary statement(s):

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

Keep/Store away from combustible materials.

Keep only in original container

Wear protective gloves/eye protection/face protection.

In case of fire: Use water spray or dry chemical to extinguish

Store in a well-ventilated place. Keep cool.

Store away from other materials.

Dispose of contents/container in accordance with appropriate Federal, State, and local regulations. Avoid discharge to sewers and natural waters.

Avoid breathing dust.

[In case of inadequate ventilation] wear respiratory protection.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a doctor.

Wash thoroughly after handling with warm water using a mild soap. Obtain medical attention if irritation persists.

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: Obtain Medical attention.

Other Hazards:

Avoid dispersion of dust in air to reduce potential for dust ignition/explosions.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS Number	Percent (w/w)	Substance Classification
Azodicarbonamide	123-77-3	90	Combustible Dust Respiratory sensitization – Category 1 – H334
Zinc compound	Trade secret	10	Combustible Dust Eye Irritant – Category 2 - H319

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.

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5. FIREFIGHTING MEASURES

Special firefighting 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.

Extinguishing media

Suitable:- water spray
 - dry chemical

Hazardous combustion products

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

Special protective equipment for firefighters

Self-contained breathing apparatus.
Full protective clothing

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

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.

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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)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

Component	Country	Type	Value	Remark
Azodicarbonamide	United Kingdom	OELV	1 mg/m ³	8 hour TWA
	United Kingdom	OELV	3 mg/m ³	15 minute exposure

ENGINEERING CONTROLS

Ventilation

Local exhaust suggested to prevent dust buildup.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical State

Powder

Color

Orange-yellow

Odor

Characteristic

Odor threshold

Not Available

pH

Not Available

Melting Point

327-356 °F Decomposes

Freezing Point

Not applicable

Initial Boiling Point/Boiling Range

Not applicable

Flash Point

Decomposes

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Flammability Limits	Upper: Not available Lower: Not available
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Density	1.68 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
Auto ignition Temperature	Not available
Decomposition Temperature	327-356 °F Decomposes without ignition. Bulk quantities may self-ignite if heated.
Viscosity	Not applicable

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

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Azodicarbonamide	123-77-3	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 0.52 mg/L (highest attainable concentration)
Zinc compound	Trade secret	> 2000 mg/kg (rat)	No information available	No information available

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Substances	CAS Number	Skin Corrosion / Irritation
Azodicarbonamide	123-77-3	Not irritating to skin in rabbits
Zinc compound	Trade secret	No information available

Substances	CAS Number	Eye damage/irritation
Azodicarbonamide	123-77-3	Non-irritating to rabbit's eye
Zinc compound	Trade secret	Eye, rabbit: Causes moderate eye irritation.

Substances	CAS Number	Skin Sensitization
Azodicarbonamide	123-77-3	Not sensitizing in laboratory animals (guinea pig, mouse).
Zinc compound	Trade secret	No information available.

Substances	CAS Number	Respiratory Sensitization
Azodicarbonamide	123-77-3	May cause sensitization by inhalation.
Zinc compound	Trade secret	No information available.

Substances	CAS Number	Mutagenic Effects
Azodicarbonamide	123-77-3	While some in vitro tests showed positive results, in vivo tests were negative.
Zinc compound	Trade secret	No information available.

Substances	CAS Number	Carcinogenic Effects
Azodicarbonamide	123-77-3	Did not show carcinogenic effects in animal experiments.
Zinc compound	Trade secret	No information available.

Substances	CAS Number	Reproductive toxicity
Azodicarbonamide	123-77-3	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.
Zinc compound	Trade secret	No information available.

Substances	CAS Number	STOT - single exposure
Azodicarbonamide	123-77-3	No significant toxicity observed in animal studies at concentrations requiring classification.
Zinc compound	Trade secret	No information available.

Substances	CAS Number	STOT - repeated exposure
Azodicarbonamide	123-77-3	No significant toxicity observed in animal studies at concentrations requiring classification.
Zinc compound	Trade secret	No information available.

Substances	CAS Number	Aspiration hazard
Azodicarbonamide	123-77-3	Not applicable
Zinc compound	Trade secret	Not applicable

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12 ECOLOGICAL INFORMATION

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Azodicarbonamide	123-77-3	No information available	EC50 - Fathead minnow (Pimephales promelas) Result: > 50 mg/l Exposure time: 48 h	No information available	EC50 - Water flea (Daphnia magna) Result: 11 mg/l Exposure time: 48 h
Zinc compound	Trade secret	No information available	No information available	No information available	No information available

13 DISPOSAL CONSIDERATIONS

General: Dispose of in accordance with appropriate Federal, State, and local regulations. Avoid discharge to sewers and natural waters. Refer to Section 8: Exposure Controls/Personal Protection

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

14 TRANSPORT INFORMATION

DOT Classification

Proper shipping name: Self-reactive solid type D, (Azodicarbonamide formulation, <=90%)
Class: 4.1
UN ID #: UN 3226
Technical description: Azodicarbonamide formulation
Packing Group II

IMDG Classification

Proper shipping name: Self-reactive solid Type D, (Azodicarbonamide formulation)
Class: 4.1
UN ID #: UN 3226
Technical description: Azodicarbonamide formulation

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:

Chemical name	CAS#	Max weight %
**** NONE ****		

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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 SDS'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	Chemical Name	Max weight %
Trade Secret	Zinc Compound	10%

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 %
**** NONE ****		

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

Chemical name	CAS#	New Jersey TS Number
**** NONE ****		

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
Cosmetics:	Not applicable
Pharmaceuticals:	Not applicable

Food contact

Azodicarbonamide:

21CFR177.1210 Closures with sealing gaskets for food containers additives not to exceed 2 wt. % of gasket composition. 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.

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.

21CFR172.806 Azodicarbonamide as an aging and bleaching ingredient in flour in an amount not to exceed 45 ppm.

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16. OTHER INFORMATION

HMIS RATING

Health: 2	Flammability: 4	Reactivity: 1	PPI: X	
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- STP Standard temperature and pressure
- w/w Weight/weight
- 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