Version 2.4

Date of Issue: 03/13/2015 Revision Date: 01/10/2024

CELOGEN® AZ 150, 1901, 2500, 9370

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: CELOGEN® AZ 150

CELOGEN[®] AZ 1901 CELOGEN[®] AZ 2500 CELOGEN[®] AZ 9370

Chemical name: Azodicarbonamide

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

Combustible Dust

Respiratory sensitization - Category 1 - H334

Label Elements

Pictogram:



Signal Word:

Danger

Hazard Statement(s):

May form combustible dust concentrations in air.

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

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Precautionary statement(s):

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.

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

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	100	Combustible Dust Respiratory sensitization – Category 1 – H334

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. 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 are generated

Toxic fumes.

Ammonia.

Oxides of nitrogen.

Oxides of carbon.

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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.

NFPA Classification:

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

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

Maximum Storage Temperature: 80° C (176° F)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

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Component	<u>Country</u>	<u>Type</u>	<u>Value</u>	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

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Local exhaust is suggested to prevent dust buildup.

PERSONAL PROTECTION

Respiratory protection

In case of occurrence of dust respiratory protective equipment is 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 190 - 220 °C

374 - 428 °F Decomposes

Freezing Point Not applicable
Initial Boiling Point/Boiling Range Not applicable
Flash Point Decomposes

Flammability Limits Upper: Not available

Lower: Not available

Vapor Pressure

Vapor Density

Not applicable

Not applicable

1.66 g/cm³ at 25 °C

Solubility in water Slightly soluble, Decomposes in alkaline solution

Solubility in organic solvents

Partitioning Coefficient

Auto ignition Temperature

Decomposition Temperature

190 - 220 °C

374 - 428 °F

Decomposes without ignition. Bulk quantities may self-ignite if heated

Viscosity Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Incompatible materials:

Metallic compounds.

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Acids.

Bases.

Strong oxidizing agents.

Hazardous reactions:

Keep away from heat.

Chemical Stability:

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

Other

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)

Substances	CAS Number	Skin Corrosion / Irritation
Azodicarbonamide	123-77-3	Not irritating to skin in rabbits

Substances	CAS Number	Eye damage/irritation
Azodicarbonamide	123-77-3	Non-irritating to rabbit's eye

Substances	CAS Number	Skin Sensitization
Azodicarbonamide	123-77-3	Not sensitizing in laboratory animals (guinea pig, mouse).

Substances	CAS Number	Respiratory Sensitization
Azodicarbonamide	123-77-3	May cause sensitization by inhalation.

Substances	CAS Number	Mutagenic Effects
Azodicarbonamide	123-77-3	While some in vitro tests showed positive results, in vivo tests were negative.

Substances	CAS Number	Carcinogenic Effects
Azodicarbonamide	123-77-3	Did not show carcinogenic effects in animal experiments.

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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.

Substances	CAS Number	STOT - single exposure
Azodicarbonamide	123-77-3	No significant toxicity observed in animal studies at concentrations requiring
		classification.

Substances	CAS Number	STOT - repeated exposure	
Azodicarbonamide	123-77-3	No significant toxicity observed in animal studies at concentrations requiring	
		classification.	

Substances	CAS Number	Aspiration hazard
Azodicarbonamide	123-77-3	Not applicable

12 ECOLOGICAL INFORMATION

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

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

14 TRANSPORT INFORMATION

DOT Classification

This product is not regulated by DOT domestically under 49 CFR 172.102 special provision 38, and under certain circumstances, the material may be shipped as hazardous materials according to D.O.T. 49 CFR 171.25 (a) regulations to retain the labeling and markings required for IMDG export.

IMDG Classification

Proper shipping name: Azodicarbonamide

Class: 4.1
UN ID #: UN 3242
Packing group: II

ICAO Classification

FORBIDDEN BY AIR

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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 ****

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:

**** NONE ****

Pennsylvania Right-To-Know Hazardous Substance List--Hazardous Substances and Special Hazardous Substances on the list 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 %

**** NONF ****

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)
Chemical name
CAS#
New Jersey TS Number

**** NONE ****

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.

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Food contact

Azodicarbonamide:

21CFR172.806 Azodicarbonamide as an aging and bleaching ingredient in flour in an amount not to exceed 45 ppm. As a dough conditioner in bread in a total amount not to exceed 45 ppm of the flour used.

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

16. OTHER INFORMATION

HMIS RATING

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