

SAFETY DATA SHEET

Version 2.0
Date of Issue: 3/13/2015
Date Printed: 3/13/2015

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

Distributed By: R.E. CARROLL, INC.
1570 North Olden Ave., Trenton NJ 08638-3204 USA
T: 609-695-6211/800-257-9365 www.recarroll.com

Chemical name: Azodicarbonamide

Use of substance/preparation: Foaming Agent

Supplier: CelChem LLC
19123 Hickory Bay Court
Baton Rouge, LA 70817 USA

Emergency telephone number: CHEMTREC: 800-424-9300 (For USA, and Canada)
CHEMTREC: 703-527-3887 (For all other Countries)

Contact: US-225-444-5402:
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.

Traces of incompletely burned carbon products.

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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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

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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	Not applicable
Vapor Density	Not applicable
Density	1.66 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	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.
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.

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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.

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

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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

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. Under certain circumstances, the material may be shipped as a hazardous material according to DOT 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

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

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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 %
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**** NONE ****

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

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

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

California Proposition 65

**** NONE ****

CHEMICAL INVENTORY

<u>Canada:</u>	This product is on the DSL.
<u>Europe:</u>	The ingredients of this mixture are on the EINECS inventory.
<u>United States:</u>	This product is on the TSCA inventory.
<u>Australia:</u>	This product is on the AICS inventory.
<u>China:</u>	This product is on the IECSC Inventory.
<u>Japan:</u>	This product is on the ENCS inventory.
<u>Korea:</u>	This product is listed on the Existing Chemicals List (ECL).
<u>Philippines:</u>	This product is on the PICCS.

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.

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16. OTHER INFORMATION

HMIS RATING

Health: 2	Flammability: 3	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

Date last modified: April 8, 2015