

CELOGEN[®] 760A

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CELOGEN[®] 760A

Chemical name: Azodicarbonamide Modified

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

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: 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.

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.

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Dispose of contents/container in accordance with appropriate Federal, State, and local regulations.

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 | 60 | Combustible Dust Respiratory sensitization – Category 1 – H334 |
| Silicon Dioxide | Trade Secret | 40 | Not classified |

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.

Special protective equipment for firefighters

Self-contained breathing apparatus.

Full protective clothing.

CELOGEN[®] 760A**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. |
|------------------|------------------------|----------------------|---|

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.

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 |

ENGINEERING CONTROLS**Ventilation**

Local exhaust is suggested to prevent dust buildup.

PERSONAL PROTECTION**Respiratory protection**

In case of occurrence of dust respiratory protective equipment is required.

CELOGEN[®] 760A**Hand protection / protective gloves**

Wear chemical resistant protective gloves

Eye protection

Wear 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 | yellow |
| Odor | Characteristic |
| Odor threshold | Not available |
| pH | Not available |
| Melting Point | 200 - 215 °C |
| | 392 - 419 °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 | 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 |
| Auto ignition Temperature | Not available |
| Decomposition Temperature | 200 - 215 °C 392 - 419 °F Decomposes without ignition. Bulk quantities may self-ignite if heated |
| Viscosity | Not applicable |

CELOGEN[®] 760A**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.
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) |
| Silicon Dioxide | Trade Secret | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rat) | > 0.14 mg/L air (4h exposure, Rat) (maximum attainable concentration) |

| Substances | CAS Number | Skin Corrosion / Irritation |
|------------------|--------------|-----------------------------------|
| Azodicarbonamide | 123-77-3 | Not irritating to skin in rabbits |
| Silicon Dioxide | Trade Secret | Not irritating to skin in rabbits |

| Substances | CAS Number | Eye damage/irritation |
|------------------|--------------|--------------------------------|
| Azodicarbonamide | 123-77-3 | Non-irritating to rabbit's eye |
| Silicon Dioxide | Trade Secret | Non-irritating to rabbit's eye |

| Substances | CAS Number | Skin Sensitization |
|------------------|--------------|--|
| Azodicarbonamide | 123-77-3 | Not sensitizing in laboratory animals (guinea pig, mouse). |
| Silicon Dioxide | Trade Secret | Not expected to cause skin sensitization. |

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| Substances | CAS Number | Respiratory Sensitization |
|------------------|--------------|--|
| Azodicarbonamide | 123-77-3 | May cause sensitization by inhalation. |
| Silicon Dioxide | 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. |
| Silicon Dioxide | Trade Secret | In vivo tests did not show mutagenic effects. In vitro tests did not show mutagenic effects. |

| Substances | CAS Number | Carcinogenic Effects |
|------------------|--------------|--|
| Azodicarbonamide | 123-77-3 | Did not show carcinogenic effects in animal experiments. |
| Silicon Dioxide | Trade Secret | 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. |
| Silicon Dioxide | Trade Secret | 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. |
| Silicon Dioxide | Trade Secret | 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. |
| Silicon Dioxide | Trade Secret | No significant toxicity observed in animal studies at concentrations requiring classification. |

| Substances | CAS Number | Aspiration hazard |
|------------------|--------------|-------------------|
| Azodicarbonamide | 123-77-3 | Not applicable. |
| Silicon Dioxide | Trade Secret | Not applicable. |

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 | No information available | EC50 - Water flea (Daphnia magna) Result: 11 mg/l Exposure time: 48 h |

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| | | | | | |
|-----------------|--------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | | Exposure time: 48 h | | |
| Silicon Dioxide | 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

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

| Chemical name | CAS# | Massachusetts TS Number |
|-----------------|--------------|-------------------------|
| Silicon Dioxide | Trade Secret | |

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

| Chemical name | CAS# | New Jersey TS Number |
|-----------------|--------------|----------------------|
| Silicon Dioxide | Trade Secret | |

CELOGEN[®] 760A**Pennsylvania Worker and Community Right-To-Know Act (Labeling Requirements)**

| | | |
|----------------------|--------------|-------------------------------|
| Chemical name | CAS# | Pennsylvania TS Number |
| Silicon Dioxide | Trade Secret | |

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.

Food contact**Azodicarbonamide:**

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

Date last modified: April 8, 2015