



# MATERIAL SAFETY DATA SHEET

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Product name: CELOGEN® 754A

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	CELOGEN® 754A
Chemical name:	Modified azodicarbonamide

Supplier: Crompton Corporation  
199 Benson Road  
Middlebury, CT 06749, USA

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300  
Crompton Corporation Emergency Response (24 hours)  
800-292-5898

For MSDS, Product Safety, or regulatory inquiries, call: 866-430-2775

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS#	CONCENTRATION
Diazenedicarboxamide	123-77-3	90.0 %
Zinc compound	Trade secret	10.0 %

## 3. 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.

## 4. FIRST AID MEASURES

### Swallowing

Do not induce vomiting. Rinse mouth and then drink water. Obtain medical attention.

MARKETED BY  
**HARWICK STANDARD  
DISTRIBUTION CORPORATION**

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**Skin**

Remove contaminated clothing. Wash thoroughly with warm water using a mild soap. Obtain medical attention if irritation persists.

**Inhalation**

Remove to fresh air. Obtain medical attention.

**Eye contact**

Immediately flush eyes with water and continue washing for several minutes. Obtain medical attention if irritation persists.

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**5. FIRE-FIGHTING MEASURES**

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**Autoignition temperature:** Bulk quantities may self ignite if heated.

**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**

Once ignited, this product will burn vigorously and with acceleration. Heated containers may explode.

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**6. ACCIDENTAL RELEASE MEASURES**

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**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.

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**7. HANDLING AND STORAGE**

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**HANDLING**

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**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**

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)

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**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.

**EXPOSURE LIMITS**

No exposure limits have been established

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE**

<b>Physical state</b>	Powder
<b>Color</b>	Orange-yellow
<b>Odor</b>	Characteristic

**OTHER PROPERTIES**

<b>Boiling point</b>	Not applicable.
<b>Melting point</b>	165 - 180 °C (327 - 356 °F) at STP unless specified below. Decomposes

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Density	1.68 g/cm <sup>3</sup>
Solubility in water	Slightly soluble, Decomposes in alkaline solution.
Flash point	Decomposes
Autoignition temperature	Bulk quantities may self ignite if heated.

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## 10. STABILITY AND REACTIVITY

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

### Incompatible materials

Strong oxidizing agents.  
Acids.  
Bases.  
Metallic compounds

### 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.

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## 11. TOXICOLOGICAL INFORMATION

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<u>Component toxicology</u> <b>Diazenedicarboxamide</b> Acute toxicity - Swallowing:	LD50 - Rat Result: 6,800 mg/kg
<u>Component toxicology</u> <b>Diazenedicarboxamide</b> Acute toxicity - Skin absorption:	LD50 - Rabbit Result: > 2,000 mg/kg
<u>Component toxicology</u> <b>Diazenedicarboxamide</b> Acute toxicity - Inhalation:	LC50 - Rat Result: > 200 mg/l
<u>Component toxicology</u> <b>Diazenedicarboxamide</b> Skin irritation - Skin contact:	Species: Rabbit Result: Non irritating.

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<u>Component toxicology</u> <b>Diazenedicarboxamide</b> Eye irritation - Eye contact:	Species: Rabbit Result: Slight
<u>Component toxicology</u> <b>Diazenedicarboxamide</b> Test results - Sensitization:	Species: Skin - Guinea pigs Result: Negative
<u>Component toxicology</u> <b>Diazenedicarboxamide</b> Test results - Sensitization:	Species: - sensitization of the respiratory tract - Human Result: Positive
<u>Component toxicology</u> <b>Diazenedicarboxamide</b> <u>Genetic toxicity in vitro</u> - Mutagenicity:	Test type: Ames bacterial assay Result: Positive
<u>Component toxicology</u> <b>Diazenedicarboxamide</b> <u>Genetic toxicity in vitro</u> - Mutagenicity:	Test type: Unscheduled DNA synthesis (UDS) Result: Negative
<u>Component toxicology</u> <b>Diazenedicarboxamide</b> <u>Genetic toxicity in vitro</u> - Mutagenicity:	Test type: Chinese Hamster Ovary (CHO) Result: Negative
<u>Component toxicology</u> <b>Diazenedicarboxamide</b> <u>Genetic toxicity in vivo</u> - Mutagenicity:	Test type: Micronucleus test (mouse): negative.

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**12. ECOLOGICAL INFORMATION**

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<u>Component ecotoxicology</u> <b>Diazenedicarboxamide</b> <u>Acute toxicity fish:</u>	- EC50 - Fathead Minnow Result: > 50 mg/l Exposure time: 48 h
<u>Component ecotoxicology</u> <b>Diazenedicarboxamide</b> <u>Acute toxicity to aquatic invertebrates:</u>	- EC50 - Daphnia magna Result: 11 mg/l Exposure time: 48 h

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**13. DISPOSAL CONSIDERATIONS**

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



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**US waste**

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

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## 14. TRANSPORT INFORMATION

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**DOT Classification**

**Proper shipping name:** Self-reactive solid Type E  
**Class:** 4.1  
**UN ID #:** UN3228

**IMDG Classification**

**Proper shipping name:** Self-reactive solid Type E  
**Class:** 4.1  
**UN ID #:** UN 3228

**ICAO Classification**

FORBIDDEN BY AIR

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## 15. REGULATORY INFORMATION

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**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 %
Zinc compound	Trade secret	10.00

**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:

Chemical name	CAS#	Max weight %
Zinc compound	Trade secret	10.00

**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 %
Zinc compound	Trade secret	10.00

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

Chemical name	CAS#	New Jersey TS Number
Diazenedicarboxamide	123-77-3	
Zinc compound	Trade secret	

## CHEMICAL INVENTORY

Canada: This product is on the DSL.

Europe: Product is not on EINECS.



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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.

## FDA

**Food additive**  
Not applicable.

**Food contact**  
Not applicable.

**Cosmetics**  
Not applicable.

**Pharmaceuticals**  
Not applicable.

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## 16. OTHER INFORMATION

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### FURTHER INFORMATION

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand)  
CONSULT REGULATORY SPECIALIST.

### HMIS RATING

Health: 2	Flammability: 4	Reactivity: 1	PPI: X
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### LEGEND

STP	Standard temperature and pressure
W/W	Weight/Weight
0 (HMIS)	Minimal 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

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The opinions expressed herein are those of qualified experts within Crompton Corporation. 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



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of these opinions and the conditions of use of this product are not within the control of Crompton Corporation, it is the user's obligation to determine the conditions of safe use of the products.