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Product name: CELOGEN® 60/14FF

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

CELOGEN® 60/14FF

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	85.0 %
Fatty acid, calcium salt	Trade secret	15.0 %

## 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.

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.

## 5. FIRE-FIGHTING MEASURES

#### NFPA CLASSIFICATION

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

#### 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.

## 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.



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# 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

### PERSONAL PROTECTION

#### Respiratory protection

In case of occurance 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**

Component Fatty acid, calcium salt	Type TWA, OSHA	<u>Value</u> 15.0 mg/m3	Remark Respirable fraction TWA-PEL, OSHA

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### **APPEARANCE**

Physical state

Powder

Color

Orange-yellow

Odor

slightly musty

### OTHER PROPERTIES

**Boiling** point

Not determined

Melting point

356 °F at STP unless specified below.

Decomposes



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Density

1.52 g/cm3 at 25 °C

**Bulk density** 

480 kg/m3

Solubility in water

Slightly soluble, Decomposes in alkaline solution.

Solubility in organic solvents

No data available.

Flash point

Decomposes

# 10. STABILITY AND REACTIVITY

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.

Component toxicology

Oxides of carbon.

Traces of incompletely burned carbon products.

Hazardous polymerization: Will not occur.

# 11. TOXICOLOGICAL INFORMATION

Diazenedicarboxamide Acute toxicity - Swallowing:	Result: 6,800 mg/kg
Component toxicology Diazenedicarboxamide Acute toxicity - Skin absorption:	LD50 - Rabbit Result: > 2,000 mg/kg
Component toxicology	LC50 - Rat

LD50 - Rat

Component toxicology Diazenedicarboxamide Acute toxicity - Inhalation:  LC50 - Rat Result: > 200 mg/l	
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Component toxicology Diazenedicarboxamide Skin irritation - Skin contact:	Species: Rabbit Result: Non irritating.
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Component toxicology Diazenedicarboxamide Eye irritation - Eye contact:	Species: Rabbit Result: Slight
Component toxicology Diazenedicarboxamide Test results - Sensitization:	Species: Skin - Guinea pigs Result: Negative
Component toxicology Diazenedicarboxamide Test results - Sensitization:	Species: - sensitization of the respiratory tract - Human Result: Positive
Component toxicology Diazenedicarboxamide Genetic toxicity in vitro - Mutagenicity:	Test type: Ames bacterial assay Result: Positive
Component toxicology Diazenedicarboxamide Genetic toxicity in vitro - Mutagenicity:	Test type: Unscheduled DNA synthesis (UDS) Result: Negative
Component toxicology Diazenedicarboxamide Genetic toxicity in vitro - Mutagenicity:	Test type: Chinese Hamster Ovary (CHO) Result: Negative
Component toxicology Diazenedicarboxamide Genetic toxicity in vivo - Mutagenicity:	Test type: Micronucleus test (mouse): negative.

# 12. ECOLOGICAL INFORMATION

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



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discharge to sewers and natural waters.

## 14. TRANSPORT INFORMATION

#### **DOT Classification**

This product is not regulated by DOT.

**IMDG Classification** 

Proper shipping name:

Azodicarbonamide mixture

Class:

4.1

UN ID#:

UN 3242

Packing group:

П

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 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:

\*\*\*\* NONE \*\*\*\*

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

Chemical name

CAS#

New Jersey TS Number

Diazenedicarboxamide Fatty acid, calcium salt 123-77-3 Trade secret

CROM317

EPA Hazard Categories (SARA 311, 312):

Immediate Health Hazard

California Proposition 65
\*\*\*\* NONE \*\*\*\*

CHEMICAL INVENTORY



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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.

#### **FDA**

#### Food contact

21CFR175.300 Resinous and Polymeric Coatings Not to exceed amount required to achieve the desired effect in can end cements. 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

# 16. OTHER INFORMATION

## **FURTHER INFORMATION**

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

#### **HMIS RATING**

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

#### **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 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.