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Version 1

## 1. IDENTIFICATION

### Product identifier

**Product name** ACTAFOAM® AZ 760A

### Other means of identification

**Product code** FG00169

**Synonyms** Preparation containing C,C'-azodi(formamide)

### Recommended use of the chemical and restrictions on use

**Recommended Use** Foaming agent.

**Uses advised against** No information available

### Supplier's details

**Manufacturer Address** Galata Chemicals, LLC  
471 Highway 3142  
Hahnville LA 70057 USA

### Emergency telephone number

**Emergency telephone** Global except China: + 1-760-476-3971 Access code 333256 (24 hours)  
China: +86 4001 2001 74

### Customer Service

North America +1 877-721-9671  
EU/Middle East/Africa +49 6206 95 7777  
Asia Pacific

us-orders@galatachemicals.com  
emea-orders@galatachemicals.com  
ap-orders@galatachemicals.com

### E-mail Address

MSDS@galatachemicals.com

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Respiratory sensitization	Category 1
Combustible dust	Yes

### GHS Label elements, including precautionary statements

#### Emergency Overview

### **DANGER**

#### **Hazard statements**

May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May form combustible dust concentrations in air



**Appearance** Powder **Physical state** Solid **Odor** Characteristic

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
 In case of inadequate ventilation wear respiratory protection

**Precautionary Statements - Response**

Get medical advice/attention if you feel unwell  
 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing  
 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

**Storage**

Store in a well-ventilated place. Keep cool

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other information**

None known

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**

Not applicable

**Mixture**

**Synonyms**

Preparation containing C,C'-azodi(formamide).

Chemical Name	CAS No.	Weight %	Trade Secret
C,C'-azodi(formamide)	123-77-3	60 - 65	*
Silicon Dioxide	7631-86-9	40 - 45	*

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES**

**First aid measures for different exposure routes**

**General advice**

If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

**Eye contact**

Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Skin contact**

Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician. Remove and wash contaminated clothing before re-use.

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<b>Inhalation</b>	Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician. Never give anything by mouth to an unconscious person.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Most important symptoms/effects, acute and delayed**

<b>Main Symptoms</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Difficulty breathing. Coughing and/ or wheezing.
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**Indication of immediate medical attention and special treatment needed, if necessary**

<b>Notes to physician</b>	Causes sensitization. Treat symptomatically.
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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam. Move containers from fire area if you can do it without risk.

**Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire. Cool containers / tanks with water spray.

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating gases and vapors. Fine dust dispersed in air may ignite.

**Explosion Data**

**Sensitivity to Mechanical Impact** Not sensitive.

**Sensitivity to Static Discharge** Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition. Avoid dust formation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.
<b>Other information</b>	Ventilate the area.

**Environmental precautions**

<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system. Should not be released into the environment.
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**Methods and materials for containment and cleaning up**

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading.
<b>Methods for cleaning up</b>	Take up mechanically and collect in suitable container for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

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**Prevention of secondary hazards** See Section 12 for additional Ecological Information.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Avoid dust formation in confined areas. Do not breathe vapors/dust. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

**Technical measures/Storage conditions** Keep containers tightly closed in a cool, well-ventilated place. Keep at temperatures below 50°C. Store in original container.

**Incompatible products** Strong reducing agents. Strong bases.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
C,C'-azodi(formamide) 123-77-3	--	--	
Silicon Dioxide 7631-86-9	--	(vacated) TWA: 6 mg/m <sup>3</sup> <1% Crystalline silica TWA: 20 mppcf : (80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA	IDLH: 3000 mg/m <sup>3</sup> TWA: 6 mg/m <sup>3</sup>

*NIOSH IDLH: Immediately Dangerous to Life or Health*

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls**

**Engineering Measures** Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Ensure that eyewash stations and safety showers are close to the workstation location.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Tightly fitting safety goggles.

**Skin and body protection** Long sleeved clothing. Protective gloves.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Respirator must be worn if exposed to dust.

**Hygiene measures** Provide regular cleaning of equipment, work area and clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Do not breathe dust. Use personal protective equipment as required. Keep working clothes separately. Remove and wash contaminated clothing before re-use. Contaminated work clothing should not be allowed out of the workplace.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and chemical properties**

<b>Physical state</b>	Solid	<b>Odor</b>	Characteristic
<b>Appearance</b>	Powder	<b>Odor threshold</b>	No information available
<b>Color</b>	yellow		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Methods</u></b>	
<b>pH</b>	No information available		
<b>Melting/freezing point</b>	200 - 215 °C	Decomposes	
<b>Boiling point/boiling range</b>	No information available		
<b>Flash Point</b>	No information available		
<b>Evaporation rate</b>			
<b>Flammability (solid, gas)</b>			
<b>Flammability Limits in Air</b>			
<b>upper flammability limit</b>	No information available		
<b>lower flammability limit</b>	No information available		
<b>Vapor pressure</b>	No information available		
<b>Vapor density</b>	No information available		
<b>Specific gravity</b>	No information available	DIN 51757	
<b>Water solubility</b>	Slightly soluble		
<b>Solubility in other solvents</b>	No information available		
<b>Partition coefficient: n-octanol/water</b>	No information available		
<b>Autoignition temperature</b>			
<b>Decomposition temperature</b>	> 200 C		
<b>Viscosity, kinematic</b>			
<b>Viscosity, dynamic</b>	No information available		
<b>Explosive properties</b>	Fine dust dispersed in air may ignite		
<b>Oxidizing Properties</b>	Not applicable		

**Other information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	None
<b>Density</b>	2.06 g/cm <sup>3</sup> @ 25 C
<b>Bulk density</b>	No information available

**10. STABILITY AND REACTIVITY**

**Reactivity**

Exothermic reaction with strong reducing agents

**Chemical stability**

Stable under recommended storage conditions.

**Customer Care**

**Hazardous Reactions**                      Exothermic reaction with strong reducing agents.

**Hazardous Polymerization**              Hazardous polymerization does not occur.

**Conditions to Avoid**

Dust formation. To avoid thermal decomposition, do not overheat. Heat, flames and sparks. Extremes of temperature and direct sunlight.

**Incompatible Materials**

Strong reducing agents. Strong bases.

**Hazardous Decomposition Products**

Nitrogen oxides (NO<sub>x</sub>). Carbon oxides. Ammonia.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

**Inhalation** Inhalation of dust in high concentration may cause irritation of respiratory system.

**Eye contact** Dust contact with the eyes can lead to mechanical irritation.

**Skin contact** Non-irritating during normal use.

**Ingestion** Low order of toxicity based on components. May cause gastrointestinal discomfort if consumed in large amounts. Not an expected route of exposure.

Chemical Name	LD50 Oral	LD50 Dermal	Inhalation LC50
C,C'-azodi(formamide) 123-77-3	> 6400 mg/kg ( Rat )	>2000 mg/kg ( Rat )	-
Silicon Dioxide 7631-86-9	5000 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	2.2 mg/L ( Rat ) 1 h

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Coughing and/ or wheezing.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Skin corrosion/irritation** Not applicable.

**Eye damage/irritation** Not applicable.

**Irritation** Inhalation of dust in high concentration may cause irritation of respiratory system.

**Corrosivity** Not applicable.

**Sensitization** May cause sensitization by inhalation.

**Germ Cell Mutagenicity** In vitro tests have shown mutagenic effects. In vivo tests did not show mutagenic effects.

**Carcinogenicity** There are no known carcinogenic chemicals in this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
C,C'-azodi(formamide) 123-77-3	--	-		--
Silicon Dioxide 7631-86-9	--	Group 3		--

**Reproductive toxicity** This product does not contain any known or suspected reproductive hazards.

**Developmental toxicity** None known.

**Teratogenicity** None known.

**Specific target organ systemic toxicity (single exposure)** None known.

**Specific target organ systemic toxicity (repeated exposure)** None known.

**Chronic toxicity** Repeated contact may cause allergic reactions in very susceptible persons. Prolonged or repeated exposure increases the risk.

**Target organ effects** Respiratory system, Immune system.

**Neurological effects** None known.

**Other adverse effects** None known.

**Aspiration hazard** Not applicable.

**Numerical measures of toxicity - Product**

**Oral LD50** > 5000 mg/kg (rat)

**Dermal LD50** > 2000 mg/kg (rat)

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
C,C'-azodi(formamide) 123-77-3	72h EC50 > 36 mg/l	96h LC50 > 50 mg/l	11: 48 h Daphnia magna mg/L EC50
Silicon Dioxide 7631-86-9	EC50= 440 mg/L 72 h (Pseudokirchneriella subcapitata)	LC50= 5000 mg/L Brachydanio rerio 96 h	7600: 48 h Ceriodaphnia dubia mg/L EC50

**Persistence and degradability**

Product is biodegradable.

**Bioaccumulation**

Does not bioaccumulate.

Chemical Name	Log Pow
C,C'-azodi(formamide) 123-77-3	-1.7
Silicon Dioxide 7631-86-9	-

**Other adverse effects**

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment**

**Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261). Can be landfilled or incinerated, when in compliance with local regulations.

**Contaminated packaging**

Dispose of in accordance with local regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
C,C'-azodi(formamide) 123-77-3	-	-	-	-
Silicon Dioxide 7631-86-9	-	-	-	-

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
C,C'-azodi(formamide) 123-77-3	-	-	--	-
Silicon Dioxide 7631-86-9	-	-	--	-

Chemical Name	California Hazardous Waste Status
C,C'-azodi(formamide) 123-77-3	--
Silicon Dioxide 7631-86-9	--

**14. TRANSPORT INFORMATION**

**Note**

SADT = 128 C for CAS# 123-77-3, C,C'-azodi(formamide) / AZODICARBONAMIDE

**DOT** Not dangerous goods for surface transport in the USA – DOT Special Provision 38 38: If this material shows a violent effect in laboratory tests involving heating under confinement, the labeling requirements of Special Provision 53 apply, and the material must be packaged in accordance with packing method OP6 in §173.225 of this subchapter. If the SADT of the technically pure substance is higher than 75 °C, the technically pure substance and formulations derived from it are not self-reactive materials and, if not meeting any other hazard class, are not subject to the requirements of this subchapter.

**TDG**  
**UN/ID No** UN 3242  
**Proper shipping name** AZODICARBONAMIDE  
**Hazard class** 4.1  
**Packing Group** II

**MEX**  
**UN/ID No** UN 3242  
**Proper shipping name** AZODICARBONAMIDE  
**Hazard class** 4.1  
**Packing Group** II

**ICAO** Forbidden

**IATA** Forbidden

**IMDG**  
**UN/ID No** UN 3242  
**Proper shipping name** AZODICARBONAMIDE  
**Hazard class** 4.1  
**Packing Group** II  
**EmS No.** F-J, S-G  
**Marine pollutant** No

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	no
<b>Chronic Health Hazard</b>	Yes



<b>Fire Hazard</b>	Yes
<b>Sudden Release of Pressure Hazard</b>	no
<b>Reactive Hazard</b>	no

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
C,C'-azodi(formamide) 123-77-3				--
Silicon Dioxide 7631-86-9				--

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
C,C'-azodi(formamide) 123-77-3	--		
Silicon Dioxide 7631-86-9	--		

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Silicon Dioxide	X	X	X

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	Health Hazard 2	Flammability 3	Instability 0	Physical and chemical hazards OX
<b>HMIS</b>	Health Hazard 2*	Flammability 3	Physical Hazard 1	Personal protection --
	<i>Chronic Hazard Star Legend</i>	<i>Chronic Health Hazard</i>		

<b>Prepared By</b>	Galata Chemicals Product Safety
<b>Issue Date</b>	03-Jan-2013
<b>Revision Date</b>	11-May-2015
<b>Revision Note</b>	New SDS format

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Material Safety Data Sheet**