

## FA-89E

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# SAFETY DATA SHEET

#### **FA-89E**

# **Section 1. Identification**

GHS product identifier : FA-89E
Chemical name : Mixture
CAS number : Mixture
Other means of identification
Product type : liquid

## Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Industrial applications. Plastics.

Supplier's details : POLYONE CORPORATION

ColorMatrix Group Inc.

680 North Rocky River Drive, Berea, Ohio, 44017-1628, USA

 $+1\ 216\ 622\ 0100$ 

Emergency telephone number

(with hours of operation)

CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or

accident).

# Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Classification of the substance or

mixture

EYE IRRITATION - Category 2A

**RESPIRATORY SENSITIZATION - Category 1** 

SKIN SENSITIZATION - Category 1

GERM CELL MUTAGENICITY - Category 2

#### **GHS label elements**



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Hazard pictograms

Signal word Danger

**Hazard statements** Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

May cause an allergic skin reaction. Suspected of causing genetic defects.

**Precautionary statements** 

Not applicable. General

**Prevention** Obtain special instructions before use. Do not handle until all safety

> precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wear

respiratory protection. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out

of the workplace.

IF exposed or concerned: Get medical attention. IF INHALED: If Response

> breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical

attention.

Store locked up. Storage

Dispose of contents and container in accordance with all local, **Disposal** 

regional, national and international regulations.

None known. **Supplemental label elements** 

Hazards not otherwise classified None known.

# Section 3. Composition/information on ingredients

Substance/mixture Mixture Chemical name Mixture Other means of identification CC10268386



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#### CAS number/other identifiers

Ingredient name	%	CAS number
Sodium bicarbonate	25 - 50	144-55-8
Azodicarbonamide	10 - 25	123-77-3
Calcium oxide	1 - 3	1305-78-8
Diphenyloxide-4,4'-disulfohydrazide	1 - 3	80-51-3
Zinc oxide	1 - 3	1314-13-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

#### Description of necessary first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms



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may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or

symptoms, avoid further exposure.

**Skin contact**: Wash with plenty of soap and water. Remove contaminated clothing

and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

**Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim

to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing

such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

**Skin contact** : May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation

watering

redness

**Inhalation** : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

**Skin contact** : Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary



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Notes to physician In case of inhalation of decomposition products in a fire, symptoms

may be delayed. The exposed person may need to be kept under

medical surveillance for 48 hours. **Specific treatments** No specific treatment.

**Protection of first-aiders** No action shall be taken involving any personal risk or without

> suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Firefighting measures

#### Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

None known.

Specific hazards arising from the chemical

**Hazardous thermal** decomposition products In a fire or if heated, a pressure increase will occur and the container

may burst.

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

Special protective actions for fire-

fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any

personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated

in positive pressure mode.

## Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and



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For emergency responders

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spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

unprotected personnel from entering. Do not touch or walk through

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

See also the information in "For non-emergency personnel".

**Environmental precautions**: Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil

or air).

#### Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with

water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal

contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach

release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency

contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures**: Put on appropriate personal protective equipment (see Section 8).

Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly



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Advice on general occupational hygiene

closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a well-ventilated place. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

## **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Diphenyloxide-4,4'-disulfohydrazide	ACGIH TLV (2000-03-01) TWA 0.1 mg/m3 Form: Inhalable fraction
Sodium bicarbonate	None.
Azodicarbonamide	None.
Zinc oxide	OSHA PEL 1989 (1989-03-01) TWA 5 mg/m3 Form: Fume STEL 10 mg/m3 Form: Fume TWA 10 mg/m3 Form: Total dust TWA 5 mg/m3 Form: Respirable fraction OSHA PEL (1993-06-30) TWA 15 mg/m3 Form: Total dust TWA 5 mg/m3 Form: Respirable fraction NIOSH REL (1994-06-01) TWA 5 mg/m3 Form: Dust and fumes STEL 10 mg/m3 Form: Fume CEIL 15 mg/m3 Form: Dust ACGIH TLV (2003-01-01)

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	TWA 2 mg/m3 Form: Respirable fraction STEL 10 mg/m3 Form: Respirable fraction OSHA PEL (1993-06-30) TWA 5 mg/m3 Form: Fume
Calcium oxide	OSHA PEL 1989 (1989-03-01) TWA 5 mg/m3 OSHA PEL (1993-06-30) TWA 5 mg/m3 NIOSH REL (1994-06-01) TWA 2 mg/m3 ACGIH TLV (1994-09-01) TWA 2 mg/m3

**Appropriate engineering controls** 

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** 

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be



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**Body protection** 

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noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

: Personal protective equipment for the body should be selected based

on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures

should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product.

**Respiratory protection**: Based on the hazard and potential for exposure, select a respirator that

meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper

fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

#### **Appearance**

Physical state : liquid [liquid]
Color : NOT APPLICABLE
Odor : Faint odor.

**Odor threshold** Not available. Not available. рH **Melting point** Not available. **Boiling point** Not available. Flash point Not available. **Burning time** Not available. **Burning rate** Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available.

Lower and upper explosive : Lower: Not available. (flammable) limits : Upper: Not available.

Vapor pressure

Vapor density

Relative density

Solubility

Solubility in water

Not available.

Not available.

Not available.

insoluble in water.

**Partition coefficient: n-** : Not available.

octanol/water

Auto-ignition temperature: Not available.Decomposition temperature: Not available.SADT: Not available.



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Viscosity : Dynamic: Not available.

Kinematic: Not available.

# Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or

its ingredients.

Chemical stability : Stable under recommended storage and handling conditions (see

Section 7).

**Possibility of hazardous reactions**: Under normal conditions of storage and use, hazardous reactions will

not occur.

**Conditions to avoid** : Keep away from extreme heat and oxidizing agents.

**Incompatible materials** : Keep away from strong acids.

Oxidizer.

**Hazardous decomposition**: Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

# Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

#### **Information on toxicological effects**

#### **Acute toxicity**

products

Product/ingredient name	Result	Species	Dose	Exposure
Remarks - Oral:	No applicable tox	No applicable toxicity data		
Remarks - Inhalation:	No applicable tox	No applicable toxicity data		
Remarks - Dermal:	No applicable tox	No applicable toxicity data		
Diphenyloxide-4,4'-disulfohyd	razide			
	LD50 Oral	Rat	2,300 mg/kg	=
Remarks - Inhalation:	No applicable tox	cicity data		
Remarks - Dermal:	No applicable tox	cicity data		
Zinc oxide				
Remarks - Oral:	No applicable tox	cicity data		
Remarks - Inhalation:	No applicable tox	cicity data		
Remarks - Dermal:	No applicable tox	cicity data		
Azodicarbonamide				
	LD50 Oral	Rat	6,400 mg/kg	=
Remarks - Inhalation:	No applicable tox	cicity data		
Remarks - Dermal:	No applicable tox	cicity data		
Sodium bicarbonate				



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	LD50 Oral	Rat	4,220 mg/kg	_
Remarks - Inhalation:	No applicable toxi	city data		
Remarks - Dermal:	No applicable toxi	city data		

Conclusion/Summary : Mixture.Not fully tested.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Zinc oxide	Eyes - Mild	Rabbit		24 hrs	-
	irritant				
	Skin - Mild	Rabbit		24 hrs	-
	irritant				
Sodium bicarbonate	Eyes - Mild	Rabbit		0.008 hrs	-
	irritant				
	Skin - Mild	Human		72 hrs	-
	irritant				

Conclusion/Summary

SkinMixture.Not fully tested.EyesMixture.Not fully tested.RespiratoryMixture.Not fully tested.

**Sensitization** 

Conclusion/Summary

Skin: Mixture.Not fully tested.Respiratory: Mixture.Not fully tested.

**Mutagenicity** 

**Conclusion/Summary** : Mixture. Not fully tested.

**Carcinogenicity** 

**Conclusion/Summary** : Mixture.Not fully tested.

**Reproductive toxicity** 

**Conclusion/Summary** : Mixture.Not fully tested.

**Teratogenicity** 

**Conclusion/Summary** : Mixture.Not fully tested.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
·			



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Calcium oxide	Category 3	Respiratory tract irritation

#### **Specific target organ toxicity (repeated exposure)**

Not available.

#### **Aspiration hazard**

Not available.

Information on likely routes of

exposure

Not available.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

**Skin contact** : May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

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

**Eye contact** : Adverse symptoms may include the following:

pain or irritation

watering

redness

**Inhalation** : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

**Skin contact** : Adverse symptoms may include the following:

irritation

redness

**Ingestion** : No specific data.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **Short term exposure**

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.



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#### Potential chronic health effects

**Conclusion/Summary** : Mixture.Not fully tested.

General : Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

Mutagenicity : Suspected of causing genetic defects.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	6,742.9 mg/kg

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Calcium oxide			
Remarks - Acute - Fish:	No applicable toxicity data		
Remarks - Acute - Aquatic	No applicable toxicity data		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data		
plants:			
	Chronic NOEC 100 Mg/l Fresh	Fish - Fish	46 d
	water		
Remarks - Chronic - Fish:	Chronic		
Remarks - Chronic -	No applicable toxicity data		
Aquatic invertebrates.:			
Diphenyloxide-4,4'-disulfohyd	razide		
Remarks - Acute - Fish:	No applicable toxicity data		
Remarks - Acute - Aquatic	No applicable toxicity data		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data		
plants:			
Remarks - Chronic - Fish:	No applicable toxicity data	·	



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Remarks - Chronic -	No applicable toxicity data			
Aquatic invertebrates.:				
Zinc oxide	1.0504434.07		Loca	
	Acute LC50 1.1 Mg/l Fresh water	Fish - Fish	96 h	
Remarks - Acute - Fish:	Acute	T	Lini	
	Acute LC50 0.098 Mg/l Fresh	Aquatic invertebrates.	48 h	
	water	Daphnia		
Remarks - Acute - Aquatic	Acute			
invertebrates.:	1070 0 046 16 17	T	T == 1	
	Acute IC50 0.046 Mg/l Fresh water	Aquatic plants - Algae	72 h	
Remarks - Acute - Aquatic	Acute			
plants:		T	Tass	
	Acute IC50 1.85 Mg/l Marine	Aquatic plants - Algae	96 h	
	water			
Remarks - Acute - Aquatic	Acute			
plants:				
Remarks - Chronic - Fish:	No applicable toxicity data			
Remarks - Chronic -	No applicable toxicity data			
Aquatic invertebrates.:				
Azodicarbonamide				
Remarks - Acute - Fish:	No applicable toxicity data			
Remarks - Acute - Aquatic	No applicable toxicity data			
invertebrates.:				
Remarks - Acute - Aquatic	No applicable toxicity data			
plants:				
Remarks - Chronic - Fish:	No applicable toxicity data			
Remarks - Chronic -	No applicable toxicity data			
Aquatic invertebrates.:				
Sodium bicarbonate			<del>-</del>	
	Acute LC50 7,550 Mg/l Fresh	Fish - Fish	96 h	
	water			
Remarks - Acute - Fish:	Acute			
	Acute LC50 767.87 Mg/l Marine	Aquatic invertebrates.	48 h	
	water	Crustaceans		
Remarks - Acute - Aquatic	Acute			
invertebrates.:				
	Acute EC50 650 Mg/l Fresh water	Aquatic plants - Algae	96 h	
Remarks - Acute - Aquatic	Acute			
plants:				
Remarks - Chronic - Fish:	No applicable toxicity data			
	Chronic NOEC 576 Mg/l Fresh	Aquatic invertebrates.	21 d	
	water	Daphnia		
Remarks - Chronic -	Chronic			
Aquatic invertebrates.:				
	1.1/00			



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Remarks - Acute - Aquatic	Dangerous for the environment: May cause long term adverse effects in the aquatic
invertebrates.:	environment.

**Conclusion/Summary** 

Dangerous for the environment: May cause long term adverse effects

in the aquatic environment.

Persistence and degradability

**Conclusion/Summary** : Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Calcium oxide	-	2.34	low
Diphenyloxide-4,4'-disulfohydrazide	-	3.00	low
Zinc oxide	-	60,960.00	high
Azodicarbonamide	1	-	low

#### Mobility in soil

Soil/water partition coefficient

(KOC)

Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



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United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

# **Section 14. Transport information**

U.S.DOT 49CFR : Not regulated for transportation.

Ground/Air/Water

International Air : UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

ICAO/IATA LIQUID, N.O.S. (Zinc Oxide), 9, PGIII, Marine Pollutant

International Water : UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

IMO/IMDG LIQUID, N.O.S. (Zinc Oxide), 9, PGIII, Marine Pollutant

# Section 15. Regulatory information

U.S. Federal regulations : United States - TSCA 12(b) - Chemical export notification: None

of the components are listed.

United States - TSCA 4(a) - Final Test Rules: Not listed
United States - TSCA 4(a) - ITC Priority list: Not listed
United States - TSCA 4(a) - Proposed test rules: Not listed
United States - TSCA 4(f) - Priority risk review: Not listed
United States - TSCA 5(a)2 - Final significant new use rules: Not

listed

United States - TSCA 5(a)2 - Proposed significant new use rules:

Not listed

United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not

determined

United States - TSCA 8(a) - Preliminary assessment report (PAIR): Listed Diphenyloxide-4,4'-disulfohydrazide

**United States - TSCA 8(c) - Significant adverse reaction (SAR):** 

Not listed

United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority

pollutants: Listed Zinc oxide



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United States - EPA Clean water act (CWA) section 311 -

Hazardous substances: Listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Flammable substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Toxic substances: Not listed

**United States - Department of commerce - Precursor chemical:** 

Not listed

Clean Air Act Section 112(b)

Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I

**Substances** 

Clean Air Act Section 602 Class II

**Substances** 

**DEA List I Chemicals (Precursor** 

Chemicals)

Chemicals)

Not listed

Not listed

Not listed

Not listed

**DEA List II Chemicals (Essential** Not listed

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification EYE IRRITATION - Category 2A

**RESPIRATORY SENSITIZATION - Category 1** 

SKIN SENSITIZATION - Category 1

GERM CELL MUTAGENICITY - Category 2

#### **Composition/information on ingredients**

Name	<b>%</b>	Classification
Calcium oxide	>= 1 - < 3	SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) - Respiratory tract irritation - Category 3
Diphenyloxide-4,4'-	>= 1 - <= 3	COMBUSTIBLE DUSTS
disulfohydrazide		ACUTE TOXICITY - oral - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1
		GERM CELL MUTAGENICITY - Category 2

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Zinc oxide	>= 1 - <= 3	EYE IRRITATION - Category 2B
Azodicarbonamide	>= 10 - <= 25	RESPIRATORY SENSITIZATION - Category 1
Sodium bicarbonate	>= 25 - <= 50	EYE IRRITATION - Category 2B

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting	Zinc oxide	1314-13-2	1 - 3
requirements			
Supplier notification	Zinc oxide	1314-13-2	1 - 3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations** 

Massachusetts: None of the components are listed.New York: None of the components are listed.New Jersey: The following components are listed:

Calcium oxide

Diphenyloxide-4,4'-disulfohydrazide

Zinc oxide

**Pennsylvania**: The following components are listed:

Calcium oxide

Zinc oxide

## California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65. **United States inventory (TSCA 8b)** : All components are listed or exempted.

**Canada inventory** : All components are listed or exempted.

## **International regulations**

#### **Inventory list**

AustraliaAll components are listed or exempted.CanadaAll components are listed or exempted.ChinaAll components are listed or exempted.Europe inventoryAll components are listed or exempted.JapanAll components are listed or exempted.



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New ZealandAll components are listed or exempted.PhilippinesAll components are listed or exempted.Republic of KoreaAll components are listed or exempted.TaiwanAll components are listed or exempted.TurkeyNot determined.

United States : All components are listed or exempted.

## Section 16. Other information

#### **Hazardous Material Information System (U.S.A.)**

Health	*	2
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

## **History**

Date of printing: 05/03/2019Date of issue/Date of revision: 05/01/2019Date of previous issue: 04/24/2019

Version : 1.2

**Key to abbreviations**: ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

UN = United Nations

**References** : Not available.

#### Notice to reader



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To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.