QEC Quality Environmental Containers

Version 6.4 Revision Date 08/11/2021 Print Date 03/18/2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 Product identifiers

Product name : Diazolidinyl urea

CAS-No. : 78491-02-8

- **1.2** Relevant identified uses of the substance or mixture and uses advised against
  - Identified uses : Laboratory chemicals, Synthesis of substances

# 1.3 Details of the supplier of the safety data sheet

Company : Quality Environmental Containers, Inc. 607 Industrial Park Road Beaver, WV 25813

Telephone: +1 304 255-3900Fax: +1 304 255-3901

# **1.4 Emergency telephone**

Emergency Phone # : 800-424-9300 CHEMTREC (USA) 24 Hours/day; 7 Days/week

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Eye irritation (Category 2A), H319 Short-term (acute) aquatic hazard (Category 2), H401

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Hazard statement(s) H319 H401 Warning

Causes serious eye irritation. Toxic to aquatic life.



Precautionary statement(s)	
P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P501	Dispose of contents/ container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

### SECTION 3: Composition/information on ingredients

# 3.1 Substances

Formula	:	C <sub>8</sub> H <sub>14</sub> N <sub>4</sub> O <sub>7</sub>
Molecular weight	:	278.22 g/mol
CAS-No.	:	78491-02-8
EC-No.	:	278-928-2
-		

Component	Classification	Concentration
Diazolidinylurea		
	Eye Irrit. 2A; Aquatic	<= 100 %
	Acute 2; H319, H401	

For the full text of the H-Statements mentioned in this Section, see Section 16.

# **SECTION 4: First aid measures**

### 4.1 Description of first-aid measures

#### **General advice**

Show this material safety data sheet to the doctor in attendance.

### If inhaled

After inhalation: fresh air.

### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

# If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

# 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11



#### Indication of any immediate medical attention and special treatment needed 4.3 No data available

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder

### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Combustible. Risk of dust explosion. Development of hazardous combustion gases or vapours possible in the event of fire.

#### 5.3 **Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.

### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

# SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 **Environmental precautions** Do not let product enter drains.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 **Reference to other sections** For disposal see section 13.

# **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities
  - Storage conditions Tightly closed. Dry.



# Storage stability

Recommended storage temperature 2 - 8 °C

### Storage class

Storage class (TRGS 510): 11: Combustible Solids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

# Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

# Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

### **Personal protective equipment**

### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

### Skin protection

Handle with impervious gloves.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

### **Body Protection**

protective clothing

### **Respiratory protection**

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.



# **Control of environmental exposure**

Do not let product enter drains.

# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid			
b)	Odor	No data available			
c)	Odor Threshold	No data available			
d)	рН	No data available			
e)	Melting point/freezing point	Melting point: 157.8 °C (316.0 °F) - Regulation (EC) No. 440/2008, Annex, A.1			
f)	Initial boiling point and boiling range	ca.230 °C ca.446 °F - Regulation (EC) No. 440/2008, Annex, A.2 - Decomposes below the boiling point.			
g)	Flash point	No data available			
h)	Evaporation rate	No data available			
i)	Flammability (solid, gas)	No data available			
j)	Upper/lower flammability or explosive limits	No data available			
k)	Vapor pressure	< 0.1 hPa at 20 °C (68 °F) - Regulation (EC) No. 440/2008, Annex, A.4			
I)	Vapor density	No data available			
m)	Density	No data available			
	Relative density	1.34 at 23 °C (73 °F) - Regulation (EC) No. 440/2008, Annex, A.3			
n)	Water solubility	10 g/l at 20 °C (68 °F) - Regulation (EC) No. 440/2008, Annex, A.6 - completely soluble			
o)	Partition coefficient: n-octanol/water	log Pow: < 0.9 at 20 °C (68 °F) - OECD Test Guideline 117 - Bioaccumulation is not expected.			
p)	Autoignition temperature	420 °C (788 °F)			
q)	Decomposition temperature	No data available			
r)	Viscosity	No data available			
s)	Explosive properties	No data available			
t)	Oxidizing properties	none			
<b></b>					

**9.2 Other safety information** No data available



# SECTION 10: Stability and reactivity

### **10.1 Reactivity**

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

### **10.2** Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### **10.3 Possibility of hazardous reactions** No data available

### **10.4 Conditions to avoid** no information available

- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

### **SECTION 11: Toxicological information**

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

### **Acute toxicity**

LD50 Oral - Rat - 2,600 mg/kg Remarks: (RTECS) Inhalation: No data available LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg (US-EPA) Remarks: Prolonged skin contact may cause skin irritation and/or dermatitis.

# Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (US-EPA)

# Serious eye damage/eye irritation

Eyes - Rabbit Result: Causes serious eye irritation. (US-EPA)

### **Respiratory or skin sensitization**

Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)

### Germ cell mutagenicity

Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation



Method: OECD Test Guideline 476 Result: positive Test Type: unscheduled DNA synthesis assay Test system: rat hepatocytes Method: OECD Test Guideline 482 Result: negative Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

Test Type: unscheduled DNA synthesis assay Species: Rat Cell type: Liver cells Application Route: Oral Method: OECD Test Guideline 486 Result: negative

Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Method: OECD Test Guideline 474 Result: negative

### Carcinogenicity

- IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### **Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure** No data available

**Specific target organ toxicity - repeated exposure** No data available

**Aspiration hazard** No data available

# **11.2 Additional Information**

Repeated dose toxicity - Rabbit - male - Dermal - 3 Weeks - NOAEL (No observed adverse effect level) - 200 mg/kg - LOAEL (Lowest observed adverse effect level) - 45 mg/kg Remarks: (in analogy to similar products)

### RTECS: YS2717000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



# SECTION 12: Ecological information

# **12.1 Toxicity**

Toxicity to daphnia and other aquatic invertebrates	flow-through test EC50 - Daphnia magna (Water flea) - 58 mg/l - 48 h (US-EPA)
Toxicity to algae	ErC50 - Pseudokirchneriella subcapitata (green algae) - 5.78 mg/l - 72 h (Regulation (EC) No. 440/2008, Annex, C.3)
Toxicity to bacteria	EC50 - activated sludge - 567 mg/l - 3 h (OECD Test Guideline 209)

### 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 24 % - Inherently biodegradable. (CO2 Evolution Test)

# 12.3 Bioaccumulative potential

No data available

**12.4 Mobility in soil** No data available

# 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

# SECTION 13: Disposal considerations

# **13.1 Waste treatment methods**

### Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

# **SECTION 14: Transport information**

**DOT (US)** Not dangerous goods

**IMDG** Not dangerous goods

**IATA** Not dangerous goods

### **Further information**



Not classified as dangerous in the meaning of transport regulations.

# **SECTION 15: Regulatory information**

### SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Acute Health Hazard

### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components ~ ~ ~ ~

Diazolidinylurea	CAS-No. 78491-02-8	Revision Date 2020-07-01
New Jersey Right To Know Components		
Diazolidinylurea	CAS-No. 78491-02-8	Revision Date 2020-07-01

# **SECTION 16: Other information**

## **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a quide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Quality Environmental Containers, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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Revision Date: 08/11/2021

Print Date: 03/18/2023