

**1 - Product and Company Identification**

**Product name:** Cublen E 34135 P  
**Product type/usage/industry:** Salt of an aminophosphonic acid  
**Manufacturer/Supplier Information:** Zschimmer and Schwarz, Inc.  
70 GA Hwy. 22 W  
Milledgeville, GA 31061  
Phone: (478) 454-1942  
**Emergency contact:** **Company:** (478) 454-1942  
**CHEMTREC (24HR):** (800) 424-9300

**2 – Hazards Identification**

**Classification of the substance or mixture:** Classification of this substance/mixture is based on  
**29 CFR 1910.1200/HazCom 2012 (GHS-US)**

Serious Eye Damage/Irritation	Category 1	H318	Causes serious eye damage
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**Labelling:**

**Signal Word:**

**DANGER!**

**Hazard Symbols:**



**Precautionary Statements:** P280: Wear eye protection/face protection.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P310: Immediately call a POISON CENTER/doctor.

**Key to Hazard Categories:**

1=Severe Hazard      2=Serious Hazard      3=Moderate Hazard      4=Slight Hazard      5=Minimal Hazard

**3 – Composition/Information on Ingredients**

<u>CAS Number</u>	<u>Material or component</u>	<u>Avg % weight</u>
138314-12-2 (alt. 85480-89-3)	Ethylenediamine tetra(methylene phosphonic acid), Calcium sodium salt	50 – 100%

This is not intended to be a complete compositional disclosure. Information provided pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200/ HazCom 2012). See Section 8 for Exposure Limits, if any.

**4 - First Aid Measures**

**Eyes:** Rinse cautiously with water for several (15) minutes. Remove contact lenses if present and easy to do – continue rinsing. Get immediate medical advice/attention.

**Skin:** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation persists or a rash occurs get medical advice/attention.

**Inhalation:** 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 if you feel unwell.

**Ingestion:** Rinse mouth and drink 1 to 2 glasses of water. Do NOT induce vomiting. If large amounts were swallowed, call a POISON CENTER or doctor/physician.

**5 - Firefighting Measures**

**Extinguishing Media:** Water spray, dry chemical, alcohol foam, or carbon dioxide.  
**Unsuitable Extinguishing Media:** None known.  
**Special Protective Equipment for Firefighters:** Self-contained breathing apparatus and protective clothing when fighting any chemical fire.  
**Unusual Fire & Explosion Hazards:** In case of fire, product may emit toxic fumes of CO<sub>x</sub>, NO<sub>x</sub>, PO<sub>x</sub> and phosphine.

**6 - Accidental Release Measures**

**Personal precautions:** Avoid creating or breathing dusts of product. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.  
**Environmental precautions:** P273: Avoid release to the environment  
 Limit leakage with earth or sand. Do not discharge into the drains/surface water/groundwater.  
 Dispose of absorbed material in accordance with local, state and federal regulations.  
**Methods for Containment/Cleaning Up:** Take up mechanically (e.g. shovel). Dispose of absorbed material in accordance with local, state, and federal regulations.

**7 - Handling and Storage**

**Handling:** Avoid creating dusts.  
 P261: Avoid breathing dusts of product  
 P262: Do not get in eyes, on skin, or on clothing  
 P264: Wash thoroughly after handling  
 P280: Wear protective gloves/protective clothing/eye protection/face protection  
**Storage:** P402+404: Store in a dry place. Store in a closed container  
 P403+233: Store in a well-ventilated place. Keep container tightly closed.  
 Protect from moisture.  
**Special Packaging Requirements:** P406: Store in a corrosive resistant container with a resistant inner liner.  
 Do not store in light metal containers.  
**Incompatible Materials or Fire/Explosion Protection:** Certain metals.

**8 - Exposure Controls/Personal Protection**

**Personal Protective Equipment (PPE):**  
**Hand Protection:** Use impervious gloves.  
**Eye Protection:** Wear safety glasses with side shields or full face shield.  
**Skin Protection:** Wear protective clothing.  
**Respiratory Protection:** Recommended if ventilation is limited.  
**Engineering Measures/Controls:**  
**Ventilation:** Ensure adequate ventilation to maintain product at acceptable airborne levels.  
**Other measures:** Eye-wash station.  
**Exposure Limits/Guidelines:**

Material	CAS #	BASIS	TYPE	VALUE
None				

**9 - Physical and Chemical Properties**

<b>Form and Appearance:</b>	White granules	<b>Odor:</b>	Odorless
<b>pH:</b>	~12.0 @ 1%	<b>Odor Threshold:</b>	N/D
<b>Boiling Point:</b>	N/D	<b>Melting/Freezing point:</b>	N/D
<b>Vapor Pressure:</b>	N/A	<b>Vapor Density (Air=1):</b>	N/A
<b>Flash Point:</b>	N/A	<b>Evaporation Rate:</b>	N/A
<b>UEL:</b>	N/A	<b>LEL:</b>	N/A
<b>Viscosity:</b>	N/A	<b>Solubility in Water:</b>	Soluble
<b>Octanol/Water Partition Coefficient:</b>	N/D	<b>Specific Gravity/ Bulk Density:</b>	800 – 1200 kg/m <sup>3</sup> @ 20°C
<b>Auto-ignition temperature:</b>	~1022°F (550°C)	<b>Decomposition Temperature:</b>	N/D
<b>Volatile content:</b>	N/D	<b>VOC Data:</b>	N/D

**10 - Stability and Reactivity**

<b>Chemical Stability:</b>	Product is stable under ordinary conditions of use and storage.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions to Avoid:</b>	Extreme heat, moisture.
<b>Incompatible Materials:</b>	Certain metals.
<b>Hazardous Decomposition Products:</b>	Extremely high temperatures and fire conditions may produce CO <sub>x</sub> , NO <sub>x</sub> , and PO <sub>x</sub> , phosphine.

**11 - Toxicological Information**

**Acute Data:**

**Principle Routes of Exposure:** Eye contact, skin contact, ingestion, inhalation (mist).

**Acute Toxicity**

Route of exposure:	Test type:	Species:	Results:	Comments:
Oral	LD50	Rat	>5000 mg/kg	-
Dermal	LD50	Rabbit	>5000 mg/kg	-

**Irritation and Corrosion**

Target organ:	Species:	Results:	Comments:
Eyes	Rabbit	Serious irritation	Irreversible eye damage possible
Skin	Rabbit	Non-irritating	-

**Sensitization**

Target organ:	Species:	Results:	Comments:
Skin	Human	No sensitizing effects known	-

**Specific Target Organ Toxicity – Single Exposure**

Target organ:	Species:	Results:	Comments:
NDA	NDA	NDA	-

**Chronic Data:**

**Carcinogenicity**

IARC	NTP	ACGIH	OSHA
No	No	No	No
<b>Mutagenicity:</b>		NDA	
<b>Reproductive Effects:</b>		NDA	
<b>Target Organ Effects:</b>		NDA	

**12 - Ecological Information**

**Acute Aquatic Toxicity**

Species:	Test type:	Exposure time:	Results:	Comments:
Rainbow trout	LC50	96h	>250 mg active acid/l	-
Daphnia magna	EC50	48h	>510 mg active acid /l	-

**Environmental Fate**

<b>Persistence/Degradability:</b>	This product is not easily biodegradable.
<b>COD/BOD5:</b>	NDA
<b>Bioaccumulation Potential:</b>	Not expected to bioaccumulate.
<b>Mobility in Soil:</b>	NDA
<b>Other Adverse Effects:</b>	NDA

**13 - Disposal Considerations**

<b>Product:</b>	Dispose of collected material/content and/or container in accordance with local, state, federal and/or international regulations.
<b>Packaging:</b>	NDA

**14 - Transport Regulations**

**US DOT Regulations (Land Transport):**

<b>Proper Shipping Name:</b>	Not regulated.
<b>Hazard Class:</b>	Not regulated.
<b>UN Number:</b>	Not regulated.
<b>Packing Group:</b>	Not regulated.
<b>Label Required:</b>	Not regulated.
<b>Other Information:</b>	Not regulated.

**IATA/ICAO Regulations (Air Transport):**

<b>Proper Shipping Name:</b>	Not regulated.
<b>Hazard Class:</b>	Not regulated.
<b>UN Number:</b>	Not regulated.
<b>Packing Group:</b>	Not regulated.
<b>Label Required:</b>	Not regulated.
<b>Other Information:</b>	Not regulated.

**IMDG/IMO Regulations (Maritime Transport):**

<b>Proper Shipping Name:</b>	Not regulated.
<b>Hazard Class:</b>	Not regulated.
<b>UN Number:</b>	Not regulated.
<b>Packing Group:</b>	Not regulated.

Label Required:	Not regulated.
EMS Number:	Not regulated.
Segregation Groups:	Not regulated.
Marine Pollutant (Y/N):	Not regulated.
Other Information:	Not regulated.

**15 - Regulatory Information**

**Domestic Regulations**

**Components requiring notification**

SARA 302 (TPQ)	SARA 304 (RQ)	SARA 313	CERCLA (RQ)	CAA 112(b) HAPS	CAA 112(r)
None	None	None	None	None	None

**SARA 311/312 Hazard Categorization:** Acute Health Hazard

**State Information**

**California Proposition 65:** May contain the following components known to the State of California to cause cancer, birth defects, or other reproductive harm.  
None.

**State Right to Know/ Hazardous Substance List Information:** The following chemicals are present on one or more Right to Know/Hazardous Substance Lists for the states of MA, MN, NJ, PA and RI.  
None.  
This is not an exhaustive list. For information on listings in other states, please consult that state's RTK/HSL.

**Chemical Inventories**

United States (TSCA)	EUROPE (EINECS/ ELINCS/ NLP)	Australia (AICS)	Philippines (PICCS)	Canada		Korea (ECL)	Japan (ENCS/ ISHL)	China (IECSC)	New Zealand (NZIoC)
				DSL	NDSL				
Yes	Yes (as 85480-89-3)	No	No	No	Yes	No	No	No	Yes (as 85480-89-3)

**16 - Additional Information**

**Key to Abbreviations:**

NDA - No data available    N/D - Not determined    N/A - Not applicable    N/E - Not established

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