

**1 - Product and Company Identification**

**Product name:** Cublen CAP 364  
**Product type/usage/industry:** Aqueous solution of a 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)**

Acute Aquatic Toxicity	Category 2	H401	Toxic to aquatic life
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**Labelling:**

**Signal Word:**

None

**Hazard Symbols:**

None

**Precautionary Statements:** P262: Do not get in eyes, on skin, or on clothing  
P273: Avoid release to the environment.  
P302+352: IF ON SKIN: Wash with plenty of soap and water.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P314: Get medical advice/attention if you feel unwell.

**Key to Hazard Categories:**

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

**3 – Composition/Information on Ingredients**

**CAS Number**

**Material or component**

**Avg % weight**

No reportable/hazardous ingredients

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**

<b>Eyes:</b>	Rinse cautiously with water for several (15) minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists: get medical advice/attention.
<b>Skin:</b>	Wash affected area with soap and water. If itching or redness develops, seek medical attention. Contaminated clothing should be removed immediately and washed before reuse. Contaminated shoes should be discarded.
<b>Inhalation:</b>	Move the person to fresh air. If breathing becomes difficult, contact a physician.
<b>Ingestion:</b>	Do not induce vomiting. If large amounts were swallowed, give water to rinse mouth and get medical attention if you feel unwell.

#### **5 - Firefighting Measures**

<b>Extinguishing Media:</b>	Water spray, dry chemical, alcohol foam, or carbon dioxide.
<b>Unsuitable Extinguishing Media:</b>	None known.
<b>Special Protective Equipment for Firefighters:</b>	Self-contained breathing apparatus and protective clothing when fighting any chemical fire.
<b>Unusual Fire &amp; Explosion Hazards:</b>	In case of fire, containers may explode from internal pressure. Cool with water. May emit toxic fumes of CO <sub>x</sub> , PO <sub>x</sub> and NO <sub>x</sub> under fire conditions.

#### **6 - Accidental Release Measures**

<b>Personal precautions:</b>	Avoid breathing mists of product. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Wear protective gloves/eye protection.
<b>Environmental precautions:</b>	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.
<b>Methods for Containment/Cleaning Up:</b>	Take up with absorbent material (e.g. vermiculite, general purpose binder). Dispose of absorbed material in accordance with local, state, and federal regulations.

#### **7 - Handling and Storage**

<b>Handling:</b>	P261: Avoid breathing mists/vapors of product P262: Do not get in eyes, on skin, or on clothing P264: Wash thoroughly after handling P280: Wear protective gloves/eye protection.
<b>Storage:</b>	P402+404: Store in a dry place. Store in a closed container P403+233: Store in a well ventilated place. Keep container tightly closed.
<b>Special Packaging Requirements:</b>	None known.
<b>Incompatible Materials or Fire/Explosion Protection:</b>	Alkaline materials.

**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>	Clear, yellow liquid	<b>Odor:</b>	Characteristic
<b>pH:</b>	~7.0 @ 1%	<b>Odor Threshold:</b>	N/D
<b>Boiling Point:</b>	~ 212°F (100°C)	<b>Melting/Freezing point:</b>	< 32°F (0°C)
<b>Vapor Pressure:</b>	N/D	<b>Vapor Density (Air=1):</b>	N/A
<b>Flash Point:</b>	N/A	<b>Evaporation Rate:</b>	N/D
<b>UEL:</b>	N/A	<b>LEL:</b>	N/A
<b>Viscosity:</b>	N/D	<b>Solubility in Water:</b>	Miscible
<b>Octanol/Water Partition Coefficient:</b>	N/D	<b>Specific Gravity/ Bulk Density:</b>	~1.1 @ 20°C
<b>Auto-ignition temperature:</b>	N/D	<b>Decomposition Temperature:</b>	N/D
<b>Volatile content:</b>	N/D	<b>VOC Data:</b>	N/D

**10 - Stability and Reactivity**

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

**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	>2000 mg/kg	H303: May be harmful if swallowed

**Irritation and Corrosion**

Target organ:	Species:	Results:	Comments:
Eyes	Human	Mildly irritating to some individuals	-
Skin	Rabbit	Non-irritating	Prolonged or repeated skin contact may cause irritation in some individuals.

**Sensitization**

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

**Specific Target Organ Toxicity – Single Exposure**

Target organ:	Species:	Results:	Comments:
NDA			-

**Chronic Data:**

**Carcinogenicity**

IARC	NTP	ACGIH	OSHA
No	No	No	No

**Mutagenicity:** NDA

**Reproductive Effects:** NDA

**Target Organ Effects:** NDA

**12 - Ecological Information**

**Acute Aquatic Toxicity**

<b>Species:</b>	<b>Test type:</b>	<b>Exposure time:</b>	<b>Results:</b>	<b>Comments:</b>
Danio rerio	LC50	96h	7 mg/l	H401: Toxic to aquatic life
Daphnia magna	EC50	48h	8.3 mg/l	H401: Toxic to aquatic life

**Environmental Fate**

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

**13 - Disposal Considerations**

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

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**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
<b>Label Required:</b>	Not regulated
<b>EMS Number:</b>	Not regulated
<b>Segregation Groups:</b>	Not regulated
<b>Marine Pollutant (Y/N):</b>	Not regulated
<b>Other Information:</b>	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:** None.

**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	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA

**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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