



Date of revision: 9/30/2009

1. Product and Company Identification

Product Name

Cublen D 5012

Product CAS Number (if applicable)

Mixture

Product Type, Usage, or Industry

Aqueous solution of an aminophosphonic acid

Company Information

Zschimmer and Schwarz, Inc.
70 GA Hwy. 22 W
Milledgeville, GA 31061

Emergency Contact

Company: (478) 454-1942
CHEMTREC: (800) 424-9300

2. Hazardous Composition and Information

This section contains hazardous components which comprise 1.0% or more of the formula; carcinogens are listed at 0.1% or greater.

<u>CAS Number</u>	<u>Material or component</u>	<u>Avg % weight</u>
10294-56-1	Phosphorous acid	< 5%
22042-96-2	Phosphonic acid, [[(phosphonomethyl) imino]bis[(2,1-ethanediylnitrilo)bis(methylene)]]tetra kis-, 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).

3. Hazards identification

HMIS Rating:

Health: 3

Fire: 0

Reactivity: 0

PPE: X

Primary routes of exposure:

Eyes: CORROSIVE! May cause redness, pain, blurred vision, eye burns, and permanent eye damage.

Skin: CORROSIVE! May cause redness, pain, and severe skin burns.



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Inhalation: Not an expected hazard unless misted or heated to high temperatures. Mist or vapor inhalation may cause irritation to the nose, throat and upper respiratory tract.

Ingestion: May cause sore throat, abdominal pain, nausea, and severe burns of the mouth, throat, and stomach.

4. First Aid Measures

Eyes:

Immediately flush with gentle but large stream of water for 15 min, lifting upper and lower eyelids occasionally. Get immediate medical attention.

Skin:

Wash affected area with soap and water. If irritation develops, consult a physician. Contaminated clothing should be removed immediately and washed before reuse. Contaminated shoes should be discarded.

Inhalation:

Move the person to fresh air and get medical attention.

Ingestion:

Do not induce vomiting. Rinse mouth with plenty of water and get immediate medical attention.

5. Firefighting Measures

Flash point: N/A

Flammability limits: *LeI:* N/D. *UeI:* N/D

Suitable extinguishing media:

alcohol-resistant foam; dry powder; CO₂

Special protective equipment for firefighters: Self-contained breathing apparatus and protective clothing when fighting any chemical fire

Unusual fire & explosion Hazards:

None known.

6. Accidental Release Measures

Personal precautions:

Avoid contact with eyes and skin. Avoid breathing in mists of product. Keep all unnecessary personnel away.

Environmental precautions

Dilute with water and use neutralizing agent. Limit leakage with earth or sand. Do not discharge into the drains/surface water/ground water. Dispose of absorbed material in accordance with local, state and federal regulations.

Methods for cleaning up/taking up

Use neutralizing agent. 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

Advice on safe handling

Avoid getting on skin or in eyes when handling product. Do not use near alkaline materials. Use only in well-ventilated area.

Advice on protection against fire and explosion

No special measures necessary.

Requirements for storage rooms and vessels

Do not store together with alkaline materials. Do not use iron, steel, copper / copper-alloys or light alloy receptacles. For short time storage stainless steel containers are acceptable. Keep tightly sealed.

8. Exposure Controls and Personal Protective Equipment

Component with OSHA exposure limits to be monitored

CAS No.	Description of substance	Type	Value
	None		

General protective measures / hygiene measures:

Observe the usual precautions when handling chemicals.

Hand protection:	Use impervious gloves
Eye protection:	Safety glasses with side shields
Respiratory protection:	Recommended.
Skin protection:	Protective clothing
Ventilation:	Recommended
Local Exhaust:	Recommended.
Other Protective Equipment:	Eye-wash station

9. Physical and Chemical Characteristics

Form and Appearance:	Brown liquid
Odor:	Characteristic
Boiling point:	~ 230°F (110°C)
Freezing point:	~ -4°F(-20°C)
pH:	~ 2.0 @ 1%
Specific gravity/Bulk Density:	~1.4
Flash point:	N/A
Viscosity:	N/D
Solubility in water:	Soluble
Vapor pressure:	N/D



10. Stability and Reactivity

Chemical stability:	Product is stable under ordinary conditions of use and storage.
Conditions to avoid:	Exposure to alkalis and high temperatures.
Incompatibility:	To strong oxidizers and metals.
Hazardous decomposition products:	High temperatures may produce PO _x , NO _x , and CO _x , and phosphine.
Hazardous polymerization:	Will not occur.

11. Toxicological Information

Acute Toxicity:

Eyes:	Irritating to eyes.
Ingestion:	LD50 (oral): rat 7,180 mg/kg
Skin:	LD50 (dermal): rabbit > 7,940/kg
Inhalation:	Mists may be irritating to respiratory tract.

Chronic Health Effects: None.

12. Ecological Information

Ecotoxicity: LC50(Salmo gairdneri) 750mg/l 96h
EC50(Daphnia magna) 242 mg/l 48h

Environmental fate: No information available.

13. Disposal Considerations

Dispose of absorbed material in accordance with local, state, and federal regulations.



14. Transport Regulations

DOT Regulations:

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(aminophosphonic acid)
Hazard Class: 8
UN Number: UN3265
Packing Group: III
Label Required: Corrosive

15. Regulatory Information

Contents of this MSDS comply with the OSHA standard 29 CFR 1910.1200.
TSCA Status: All the components in this material are listed under TSCA inventory.

EPA SARA Title 302: None.
EPA Section 304 CERCLA Hazardous substance: None.

CAS #	Description	% Weight	CERCLA RQ
	None		

EPA Section 311/312 Hazard Categorization:

Acute x Chronic Fire Pressure Reactive None

EPA Section 313 Toxic chemicals: None
State hazardous information: None

16. Additional Information

This information is based on our present state of knowledge. It should not be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Existing acts and regulations must be observed by the recipient of our products under their own responsibility.