

1 - Product and Company Identification

Product name: Cublen D 3217 – US
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)

Not classified

Labelling:

Signal Word:

None

Hazard Symbols:

None

Precautionary Statements:

P262: Do not get in eyes, on skin, or on clothing
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

<u>CAS Number</u>	<u>Material or component</u>	<u>Avg % weight</u>
68155-78-2 (22042-96-2)	Diethylenetriamine penta(methylene phosphonic acid) heptasodium salt	35 – 45%

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. If eye irritation persists: get medical advice/attention.
Skin:	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.
Inhalation:	Move the person to fresh air. If breathing becomes difficult, contact a physician.
Ingestion:	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

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, containers may explode from internal pressure. Cool with water. May emit toxic fumes of CO _x , PO _x and NO _x under fire conditions.

6 - Accidental Release Measures

Personal precautions:	Avoid breathing mists of product. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Wear protective gloves/eye 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 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

Handling:	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.
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.
Special Packaging Requirements:	P406: Store in a corrosive resistant container with a resistant inner liner. Do not use iron, steel, copper / copper-alloys or light alloy receptacles.
Incompatible Materials or Fire/Explosion Protection:	Oxidizers, alkaline materials, light 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

Form and Appearance:	Clear, amber to brown liquid	Odor:	Characteristic
pH:	~7.0	Odor Threshold:	N/D
Boiling Point:	~ 212°F (100°C)	Melting/Freezing point:	N/D
Vapor Pressure:	N/D	Vapor Density (Air=1):	N/A
Flash Point:	N/A	Evaporation Rate:	N/D
UEL:	N/A	LEL:	N/A
Viscosity:	N/D	Solubility in Water:	Miscible
Octanol/Water Partition Coefficient:	N/D	Specific Gravity/ Bulk Density:	~1.33
Auto-ignition temperature:	N/D	Decomposition Temperature:	N/D
Volatile content:	N/D	VOC Data:	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: Oxidizers, alkaline materials, light metals.
Hazardous Decomposition Products: Extremely high temperatures and fire conditions may produce CO_x, PO_x, and NO_x.

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	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

Species:	Test type:	Exposure time:	Results:	Comments:
Salmo gairdneri	LC50	96h	>180 mg/l	-
Daphnia magna	EC50	48h	>240 mg/l	-

Environmental Fate

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

13 - Disposal Considerations

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

14 - Transport Regulations

US DOT Regulations (Land Transport):

Proper Shipping Name:	Not regulated
Hazard Class:	Not regulated
UN Number:	Not regulated
Packing Group:	Not regulated
Label Required:	Not regulated
Other Information:	Not regulated

IATA/ICAO Regulations (Air Transport):

Proper Shipping Name:	Not regulated
Hazard Class:	Not regulated
UN Number:	Not regulated
Packing Group:	Not regulated
Label Required:	Not regulated
Other Information:	Not regulated

IMDG/IMO Regulations (Maritime Transport):

Proper Shipping Name:	Not regulated
Hazard Class:	Not regulated
UN Number:	Not regulated
Packing Group:	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: 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	Yes	NDA	Yes	No	Yes	Yes	Yes	Yes

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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