

Material Safety Data Sheet

Trade name: Cublen DNC 450

Date of revision: November 7, 2007

1. Chemical Product and Company Identification

Product use: Formulation additive

Trade name: Cublen DNC 450

Supplied in the USA by Zschimmer & Schwarz Inc.
70 – GA HWY 22 W,
Milledgeville, GA, 31061.
Tel: (478) 454 – 1942
Fax: (478) 453 – 8854

Emergency # **CHEMTREC: 1-800-424-9300**

2. Composition / information on ingredients

Chemical Characterization: Aqueous solution of an aminophosphonic acid

CAS Number	Chemical Description	Quantity (%)
15827-60-8	Phosphonic acid, [[[phosphonomethyl)imino]bis[2, 1 - ethanediyl]nitrilobis(methylene)]]tetrakis-	25 – 50%
7664-93-9	Sulfuric acid	5 – 25%

3. Hazards identification / Effects of overexposure

Irritant. May cause irritation to eyes, skin and respiratory track. May be harmful if swallowed.
HMIS Rating: Health: 3; Flammability: 0 Instability / Reactivity: 0; PPE: X

4. First aid measures

EYES: Flush with copious amounts of running water. Get medical attention.

SKIN: Wash affected area with soap and water.

INGESTION: Immediately rinse mouth with water and get medical attention.

5. Fire fighting procedures

Flash point: N/A
Suitable extinguishing media: water; alcohol-resistant foam; dry powder; CO2
Special protective equipment for firefighters: wear fully protective suit and mount respiratory protective device.
Unusual fire & explosion Hazards: None Known.
Products of combustion: phosphine, nitrogen oxides and carbon oxides

6. Accidental release measures

Personal precautions:
Wear protective clothing. Avoid breathing vapors.
Environmental precautions
Dilute with plenty of water. Use neutralizing agent. Do not discharge into the drains/surface water/ground water.
Methods for cleaning up/taking up
Use neutralizing agent. Take up with absorbent material (e.g. general-purpose binder). Rinse away small quantities of products with a lot of water.

7. Handling and storage

Advice on safe handling
Do not store together with alkalis (caustic solutions). Otherwise no special measures necessary
Advice on protection against fire and explosion
No special measures necessary
Requirements for storage rooms and vessels
Do not use iron, steel, copper / copper-alloys or light alloy receptacles. Keep tightly sealed.

8. Exposure controls / personal protection

General protective measures / hygiene measures:
Observe the usual precautions when handling chemicals.

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

9. Physical and chemical properties

Form:	Liquid	Freezing Point	~ -15°C
Color:	Brown	Boiling point	~ 100 °C
Odor:	Characterisitic	Specific Gravity	~ 1.50
Vapor pressure:	N/D	Solubility in water:	miscible
Vapor Density:	N/D	pH value @1% 20 °C	< 2.0
Evaporation rate	N/D		
Flash point:	N/A	Viscosity:	N/D

10. Stability and reactivity

Chemical stability: Thermal degradation above 150°C.
Conditions to avoid: Avoid exposure to alkalis and to extreme heat.
Incompatibility: To strong oxidizers, alkalis and metals
Hazardous decomposition products: CO, phosphine, nitrogen oxides.
Hazardous polymerization: Will not occur.

11. Toxicological information

The product is damaging to eyes, skin, and gastrointestinal tract. No sensitization effects known.

LD50 (oral): rat > 5,000 mg/kg
 LD50 (dermal): rabbit > 5,000 mg/kg

The product has not been tested. The information is derived from the properties of the individual components. The product was classified on the basis of the calculation procedure of the preparation directive (1999/45/EC).

12. Ecological information

Ecotoxicity effects

Aquatic toxicity:

LC 50 (Rainbow trout) 200 mg/L after 96 hr
 EC50 (Daphnia magna) 250 mg/l after 48 hr

13. Disposal considerations

Dispose off in accordance with all applicable Federal, State, provincial and local regulations

14. Transport information

Land transport information

Description of goods : CORROSIVE LIQUID, ACIDIC, ORGANIC,
N.O.S.(aminophosphonic acid)
Class : 8
UN- Number : 3265
Packaging Group : III

15. Regulatory information

TSCA Status: All the components in this material are listed under TSCA inventory.

16. Additional information

Prepared by: Zschimmer & Schwarz Inc., 70 – GA Hwy 22 W, Milledgeville, GA, 31061.

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.