

Material Safety Data Sheet

Trade name: Cublen K 60

Date: October 11, 2007

1. Chemical Product and Company Identification

Product use: Formulation additive

Trade name: Cublen K 60

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. OSHA Composition / information on ingredients

Chemical Characterization: Phosphonic acids

CAS Number	Chemical Description	Quantity (%)
2809-21-4	Phosphonic acid, (1-hydroxyethylidene)bis-	50 – 100%
10294-56-1	Phosphorous acid	~ 1.5%
64-19-7	Acetic acid	~ 1%

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: D

4. First aid measures

EYES: Flush with copious amounts of running water. If irritation persists, contact a physician.

SKIN: Wash affected area with soap and water.

INGESTION: Immediately rinse mouth with water and get medical attention. Do not induce vomiting.

5. Fire fighting procedures

Flash point: N/A

Flammability limits: *Lel:* N/D. *Uel:* N/D

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, phosphoric oxide 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.
For short time storage stainless steel containers are acceptable.

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	-25°C
Color:	Colorless	Boiling point	~ 104 °C
Odor:	Characterisitic	Specific Gravity	~ 1.44
Vapor pressure:	N/D	Solubility in water:	miscible
Vapor Density:	N/D	pH value @1% 20 °C	1.5 – 2.0
Evaporation rate	N/D		
Flash point:	N/A	Viscosity (20°C):	~ 70 cps

10. Stability and reactivity

Chemical stability: Product is stable under ordinary conditions of use and storage.
Conditions to avoid: Avoid exposure to alkalis and to heat / ignition sources.
Incompatibility: To strong oxidizers and metals
Hazardous decomposition products: None with proper handling and storage.
Hazardous polymerization: Will not occur.

11. Toxicological information

The product is irritating to eyes, skin, respiratory system and gastrointestinal tract. The product does not cause any skin sensitization.

LD50 (oral): rat 2350 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 386 mg/l after 96 hr

Do not allow product to reach groundwater, water course, or sewage systems.

13. Disposal considerations

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

14. Transport information

Land/Maritime/Air transport information

Description of goods : CORROSIVE LIQUID, ACIDIC, ORGANIC,
N.O.S. (hydroxyethan-diphosphonic 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.