



KSC Komponent® — MSDS
Additive for Non-Shrink and Low-Shrinkage Concrete
March 2010

 [KSC Komponent® - MSDS \[Printable PDF\]](#)

SECTION I — GENERAL INFORMATION

1. CTS Cement Manufacturing Corporation
11065 Knott Avenue, Suite A
Cypress, CA 90630
2. Emergency Phone Number: (800) 929-3030
3. Website: www.ctscement.com
4. Chemical Name and Synonyms: N/A
5. Trade Name and Synonyms: Komponent®
6. Chemical Family: Calcium Salts
7. Formula:

Silicone Dioxide [SiO₂] 7.70%
 Aluminum Oxide [Al₂O₃] 7.00%
 Iron Oxide [Fe₂O₃] 1.17%
 Calcium Oxide [CaO] 50.07%
 Magnesium Oxide [MgO] 0.08%
 Sulfur Trioxide [SO₃] 26.04%
 Loss on Ignition 4.00%
 Total Alkalis as [Na₂O] 0.56%
 Insoluble Residue 2.38%

SECTION II — HAZARDOUS INGREDIENTS

8. Hazardous Ingredients: N/A

SECTION III — PHYSICAL DATA

9. Boiling Point: N/A
10. Vapor Pressure: N/A
11. Vapor Density: N/A
12. Solubility in Water: Slight (typically 0.1 to 1%)
13. Specific Gravity: Approximately 3.10
14. Percentage Volatile by Volume: N/A
15. Evaporation Rate: N/A
16. Appearance and Odor: Gray (or white) powder, odorless

SECTION IV — REACTIVITY DATA

17. Flash Point: N/A
18. Flammable or Explosive Limits: N/A
19. Extinguishing Media: N/A
20. Special Fire-Fighting Procedures: N/A
21. Unusual Fire and Explosion Hazards: None

SECTION V — HEALTH HAZARD DATA

22. Threshold Limit Value:

5 mg/m³ (respirable dust)
 10 mg/m³ (total dust)
 30 million particles per cubic foot

23. Over Exposure: See below

Acute — Dry Komponent® when combined with body moisture and wet component, especially as an ingredient in plastic (unhardened) concrete, can dry the skin and cause alkali burn. Komponent® dust can irritate the eyes and upper respiratory system.

Chronic — Komponent® dust can cause inflammation of the lining tissue of the interior of the nose and inflammation of the cornea. Hypersensitive individuals may develop an allergic dermatitis. (Komponent® may contain traces of hexavalent chromium.)

24. Emergency and First-Aid Procedures: Irrigate eyes with water. Wash affected area of the body with soap and water.

SECTION VI — REACTIVITY DATA

25. Stability: Product is stable. Although no hazardous reaction will occur, Komponent® should be kept dry until used.

26. Incompatibility: None

27. Hazardous Decomposition Products: None

28. Hazardous Polymerization: Will not occur.

SECTION VII — SPILL PROCEDURES

29. Steps to be taken in case material is spilled: Use dry clean-up methods that Do NOT disperse the dust into the air. Avoid breathing the dust.

30. Waste Disposal Method: Material can be returned to container for later use, or it can be disposed of as common waste.

SECTION VIII — SPECIAL PROTECTION INFORMATION

31. Respiratory Protection: In dusty environments, the use of NIOSH-approved respirator is recommended.

32. Ventilation: Local exhaust can be used, if necessary, to control airborne dust levels.

33. Eye Protection: In dusty environments, the use of tight-fitting goggles is recommended.

34. Skin: Use barrier creams, gloves, boots and clothing to protect the skin from prolonged contact with cement, especially wet cement in plastic concrete. Immediately after working with cement, workers should shower with soap and water. Precautions must be observed because cement burns occur with little warning — little heat is sensed.

SECTION IX — SPECIAL PRECAUTIONS

35. Precautions to be Taken in Handling and Storing: None

36. Other Precautions: None