



Rapid Set® Cement All™ — MSDS

Fast setting, High-Strength, Multi-Purpose, Non-Shrink Grout

May 2009



Rapid Set® Cement All™ - MSDS [Printable PDF]

Rapid Set® Cement, Cement All™, Mortar Mix, Concrete Mix & D.O.T. Repair Mix, D.O.T Repair Mortar, D.O.T. Cement, Rapid Set® Stucco Mix, Eisenwall® Cement, WunderFixx

SECTION I — GENERAL INFORMATION

1. CTS Cement Manufacturing Corporation
11065 Knott Avenue, Suite A
Cypress, CA 90630
Website: www.ctscement.com or www.rapidset.com
2. Emergency Phone Number: (800) 929-3030
3. Chemical Name and Synonyms: N/A
4. Trade Name and Synonyms:

Rapid Set® Cement
Rapid Set® Non-Shrink, Multipurpose Grout, Cement All™, Extra High-Strength Mix
Rapid Set® Mortar Mix
Rapid Set® Concrete Mix
Rapid Set® D.O.T. Mix
Rapid Set® D.O.T. Repair Mortar
Rapid Set® D.O.T. Cement
Rapid Set® Stucco Mix
Eisenwall® Cement

5. Chemical Family: Calcium Salts
6. Formula:

Silicon Dioxide [SiO₂] 15.40% 7631-86-9 N/A N/A
Aluminum Oxide [Al₂O₃] 13.74% 1344-28-1 N/A N/A
Iron Oxide [Fe₂O₃] 2.38% 1345-25-1 N/A N/A
Calcium Oxide [CaO] 50.87% 1305-78-8 N/A N/A
Magnesium Oxide [MgO] 1.26% 1309-48-4 N/A N/A
Sulfur Trioxide [SO₃] 12.52% 7446-11-9 N/A N/A
Loss on Ignition 2.84% 65997-15-1
Total Alkalis [As Na₂O] 0.56%
Insoluble Residue 0.78%

SECTION II — HAZARDOUS INGREDIENTS

7. Hazardous Ingredients:

Silicon Dioxide
Aluminum Oxide
Iron Oxide
Magnesium Oxide
Sulfur Trioxide

SECTION III — PHYSICAL DATA

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

SECTION IV — REACTIVITY DATA

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

SECTION V — HEALTH HAZARD DATA

- 21. Threshold Limit Value: 5 mg/m³ (respirable dust), 10 mg/m³ (total dust), 30 million particles per cubic foot
- 22. Over Exposure: See Below

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

Chronic — Cement 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. (Cement may contain traces of hexavalent chromium).

- 23. Emergency and First-Aid Procedure: Irrigate eyes with water. Wash affected areas of the body with soap and water.

SECTION VI — REACTIVITY DATA

- 24. Stability: Product is stable. Although no hazardous reaction will occur, Rapid Set® products should be kept dry until used.
- 25. Incompatibility: None
- 26. Hazardous Decomposition Products: None
- 27. Hazardous Polymerization: Will not occur

SECTION VII — SPILL PROCEDURES

- 28. 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.
- 29. 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

- 30. Respiratory Protection: In dusty environments, the use of NIOSH-approved respirator is recommended.
- 31. Ventilation: Local exhaust can be used, if necessary, to control airborne dust levels.
- 32. Eye Protection: In dusty environments, the use of tight-fitting 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

- 34. Precautions to be taken in Handling and Storing: None
- 35. Other Precautions: None