



SAFETY DATA SHEET

ARCHITECTURAL CONCRETE CHEMICALS

Revised: July 30, 2015

1. IDENTIFICATION OF THE PRODUCT AND MANUFACTURER

Tuff Release

Arcal Chemicals, Inc.
223 Westhampton Avenue
Capitol Heights, MD 20743

Telephone: 301-336-9300
Fax: 301-336-6597
Emergency: Chemtrec: 800-424-9300

2. HAZARDS IDENTIFICATION

Warning: Combustible liquid. (GHS Category 4)

Emergency Overview: Tuff Release is a paste which can be very slippery; it contains solvent with a flash point >142 F.

Exposure routes: Skin contact is the most likely route of exposure, since the product is unattractive for ingestion. It is too viscous to be inhaled, but the vapor of solvent could enter the lungs.

Eye contact: Eye contact is possible; it is readily washed out without serious injury.

Skin contact: This is the most likely route of exposure, especially from contaminated clothing.

Ingestion: Unlikely because of consistency, color and odor.

Inhalation: The product is too viscous to be inhaled, but some solvent vapor could be inhaled.

Carcinogenicity: No component of Tuff Release is known to be carcinogenic.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

| Hazardous Components | CAS No. | Concentration | ACGIH TWA |
|----------------------|------------------------------|---------------|------------------------------------|
| Aliphatic naphtha | 64742-48-9 and 64742-47-8 | 50% | 500 ppm 2,000 mg/m ³ |

4. FIRST AID MEASURES

Eyes: Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin: Wash with plenty of water; remove and launder contaminated clothing before reuse.

Ingestion: Do not induce vomiting. Call a physician or Poison Control Center.

Inhalation: Move to fresh air; if breathing is difficult, move to fresh air.

Notes to Physician: Symptoms of inhalation or skin overexposure may be headache, dizziness, tiredness, nausea and vomiting. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: CO₂, dry chemical, foam. Use water spray to cool unopened containers.

Unsuitable extinguishing media: Water blast may spread burning liquid.

Hazardous combustion products: Carbon monoxide and carbon dioxide, hydrocarbons.

Precautions for fire-fighting: Wear full protective gear and self-contained breathing apparatus.

| | | | |
|---------------------------|---------------|---------------------|-------------------|
| NFPA FIRE HAZARDS: | HEALTH | FLAMMABILITY | REACTIVITY |
| | 1 | 2 | 0 |

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Avoid release to the environment; if possible, scoop up and dispose in accordance with local, state and federal regulations.

Methods for cleaning up: Remove all sources of ignition, scoop up or treat with absorbent material (e.g., sand or vermiculite) and dispose in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Handling: Wear personal protective equipment. Keep away from open flame or other sources of ignition.

Storage: Store in a cool, dry, ventilated area, away from incompatible substances. Keep containers tightly closed.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**General advice:**

Exposure controls Provide sufficient mechanical ventilation to maintain exposure below guidelines.

Eye protection Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin protection Wear chemically resistant gloves without tears, pinholes, or signs of wear.

Respiratory protection: A NIOSH-approved respirator may be needed where airborne concentrations exceed exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous brown pasty mixture
Odor: Solvent
Density: 0.83
Bulk Density: 6.9 lb/gal
Boiling point: 160 - 245 °C (315 - 470 °F)
Volatile Organic Content: 50% by weight
Solubility in water: Negligible
Flash point: 142 - 151 F

10. STABILITY AND REACTIVITY

Conditions to avoid: Heat, flames and sparks.

Incompatible products: Strong oxidizing agents.

Hazardous decomposition products: Carbon monoxide and dioxide, hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD50 (rat): 5,000 mg/kg

Acute inhalation toxicity: LC50 (rat, 4 hr) Assessment of solvent: The mixture is low toxic after short term inhalation.

Acute dermal toxicity: LD50 (rabbit) >2000 mg/kg Assessment: The solvent has no acute dermal toxicity.

12. ECOLOGICAL INFORMATION

Do not empty into drains. Freshwater fish 800 mg/L LC50 96 hr.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods: Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

Not regulated for transport in non-bulk containers (<450 L or <119 gallon capacity), in accordance with 49 CFR 173.150(f) when transported solely by land.

15. REGULATORY INFORMATION

TSCA: All ingredients are listed.

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.