

Ransom & Randolph

1. Product and Company Identification

<i>Product Name</i> Deluxcote® Concentrate	<i>MSDS Code Number</i> 263
<i>Trade Name & Synonyms</i>	<i>Date of Last Revision</i> 04/2008
<i>Chemical Name</i>	<i>Manufacturer</i> Ransom & Randolph
<i>C.A.S. Number</i>	<i>Address</i> 3535 Briarfield Blvd, Maumee, OH 43537
<i>Grades or Minor Variant Identities</i>	<i>Information Telephone Number</i> 419/865-9497 FAX 419/865-9997
<i>Product Use</i> Ceramic shell molds	<i>Emergency Telephone Number</i> 419/865-9497

2. Composition of Ingredients

<u>Hazardous Components</u>	<u>C.A.S. Number</u>	<u>%</u>
Al Koxylated alcohol	N/A	<10%
Silicone emulsion	N/A	<10%
Ammonia	7664-41-7	<0.2%

3. Hazardous Identification*Emergency Overview*

Inhalation of vapor or mist can cause headache, nausea, and irritation of the nose, throat, and lungs. May cause eye irritation. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing.

<i>Routes of Exposure</i>	<i>Signs & Symptoms</i>	<i>Single, Repeated, or Lifetime Exposure</i>	<i>Severity (Mild, Moderate, Severe)</i>	<i>Acute and Chronic Health Effect(s)</i>	<i>Target Organ(s)</i>
<i>Eye</i>	Irritation				
<i>Skin</i>	Irritation				
<i>Inhalation</i>	Irritation to nose and throat, nausea				
<i>Ingestion</i>					
<i>Other</i>					

Medical Conditions Aggravated by Exposure

None known

Carcinogenicity (IARC, NTP)

Not listed by IARC, NTP

*Potential Environmental Effects***4. First Aid Measures**

<i>Routes of Exposure</i>	<i>First Aid Instructions</i>	<i>Immediate Medical Attention</i>	<i>Delayed Effects</i>
<i>Eye</i>	Flush with flowing water at least 15 minutes		If irritation persists, see a physician.
<i>Skin</i>	Flush with water		If irritation persists, see a physician.
<i>Inhalation</i>	Move to fresh air		
<i>Ingestion</i>	Contact a physician		

<i>Other</i>	Never give fluids or induce vomiting if patient is unconscious or having convulsions.		
<i>Note to Physicians (Treatment, Testing, and Monitoring)</i>			
5. Fire and Explosion Data			
<i>Flashpoint: (Method)</i>	<i>Flammable (Explosive) Limits in Air</i>		<i>Autoignition Temperature:</i>
	LEL: N/A	UEL: N/A	<i>Other</i> This product is non combustible
<i>Flame Propagation or Burning Rate (for solids):</i>	<i>Properties Contributing to Fire Intensity</i>	<i>Flammability Classification NFDA Rating:</i>	
<i>Extinguishing Media</i> Water spray, foam, dry chemical, carbon dioxide		<i>Extinguishing Media to Avoid</i>	
<i>Protection and Procedures for Firefighters:</i> Avoid eye and skin contact. Do not breathe fumes.			
<i>Unusual Fire and Explosion Hazards:</i> Material can splatter above 212°F (100°C). Dried product can burn.			
6. Accidental Release Measures			
<i>Containment Techniques</i> Dike around spilled material.			
<i>Spill/Leak Clean-Up Procedures and Equipment</i> Soak up with absorbent materials and remove to container for disposal. Wash area thoroughly with a detergent and water.			
<i>Evacuation Procedures</i>			
<i>Special Instructions</i>			
<i>Reporting Requirements</i>			
7. Handling and Storage			
<i>Handling Practices and Warnings</i> Normal warehouse handling.			
<i>Storage Practices and Warnings</i> Keep from freezing. Binder stored in transparent or translucent containers should be sheltered from direct sunlight.			
8. Exposure Controls/Personal Protection			
<i>Ventilation</i> Local exhaust	<i>Other Engineering Controls</i> General ventilation		
<i>Routes of Entry:</i>	<i>Personal Protective Equipment (PPE) for Normal Use:</i>		<i>PPE for Emergencies:</i>
<i>Eye/Face</i>	Safety glasses		
<i>Skin</i>	Protective gloves		
<i>Inhalation</i>			

General Hygiene Considerations and Work Practices

Other Protective Measures and Equipment

Eye wash and shower.

9. Physical and Chemical Characteristics

<i>Appearance</i> Oatmeal like, milky white		<i>Odor</i> Slight ammonia odor	
<i>Normal Physical State:</i>		<i>Boiling Point</i> 212°F	
<i>Liquid</i>	<i>Gas</i>	<i>Melting Point</i> 32°F (0°C)	
<i>Solid</i>	X semi solid paste	<i>Freezing Point</i> 32°F (0°C)	
<i>Specific Gravity or Density (H₂O=1)</i> N/A		<i>Solubility in Water</i> ~85%	<i>pH</i> 9.0
<i>Vapor Pressure (mm Hg.)</i> 17 mm Hg		<i>Vapor Density (AIR = 1)</i>	<i>Evaporation Rate (Water=1)</i> <1

Other

% Volatile by Volume: <65% (water)

10. Stability and Reactivity

Incompatibility (Materials to Avoid)

Strong oxidizers

Hazardous Products Produced During Decomposition

CO_x

<i>Hazardous Polymerization?</i>	<i>May Occur</i>	<i>May Not Occur</i>	<i>Conditions to Avoid</i>
<i>Stability?</i>	<i>Stable</i> X	<i>Unstable</i>	<i>Conditions to Avoid</i> Do not freeze

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data

12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements

No ecotoxicity data is available. This product is not expected to present an environmental hazard.

13. Disposal Considerations

Regulations

Waste material must be disposed of in accordance with federal, state, and local environmental regulatory controls.

Properties (Physical/Chemical) Affecting Disposal

14. Transport Information

Regulated for shipping?

Yes No X

Proper Shipping Name

Cement – High temp bonding - bulk

Packing Group

N/A

Do changes in quality, packaging, or shipment method change product classification?

Yes No X

Hazard Class

N/A

Identification Number

N/A

Other

15. Regulator Information

Federal Regulations

International Regulations

Other

16. Other Information

NFPA Hazard Rating	Health: 1	Flammability: 0	Reactivity: 0
HMIS Hazard Rating	Health: 1	Flammability: 0	Reactivity: 0
Personal Protection: C – safety glasses, gloves, apron.			

The information set forth herein has been gathered from standard reference materials and/or Ransom & Randolph Company test data and is, to the best knowledge and belief of Ransom & Randolph Company accurate and reliable. Such information is offered solely for your consideration, investigation and verification and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones which exist. Ransom & Randolph Company makes no warranties, express or implied, with respect to the use of such information or the use of the specific material identifies here in combination with any other material or process, and assumes no responsibility therefore.