

**SECTION 1: IDENTITY**

**Product Identifier**

GA-213 R-Grout Aid

**Alternate Product Name(s)**

None

**Details of the supplier of the safety data sheets**

R-CRETE INC.  
P.O. Box 80286  
Rancho Santa Margarita, CA 92688  
949-888-8401 Fax 949-858-5720

**Emergency telephone number**

Emergency Telephone Number: 949-350-9422

**SECTION 2: HAZARDOUS INGREDIENTS**

**Classification of the substance or mixture**

Physical hazards	Flammable solids
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Combustible dust

**Label elements**

Hazard Pictograms



**Signal Word:** DANGER!

**Hazard statements:**

May form combustible dust concentrations in air. Flammable solid.

<b>I. Prevention</b>	Prevent dust accumulation to minimize explosion hazard. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Wear protective gloves/eye protection/face protection.
<b>II. Response</b>	In case of fire: Use appropriate media to extinguish.
<b>III. Storage</b>	Store away from incompatible materials.
<b>IV. Disposal</b>	Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations.

**Additional Information**

HNOC - Hazards not otherwise classified  
None known.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Mixtures**

<u>Chemical Names</u>	<u>CAS REG NO,</u>	<u>AMT</u>	<u>Exposure Limits in Air</u>
Lignosulfonate	68131-32-8	>60%	None
Silicone Dioxide	14808-60-7	<20%	TWA-0.1 mg/m3
Aluminum Powder	7429-90-5	<5%	5 mg/m3 10 Total
Tetramthayl-5 Decyne-4,	126-86-3	<2%	N/E

**SECTION 4: FIRST AID MEASURES**

**Description of first aid measures**

<b>Eye Contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Do not rub eyes. Get medical attention if irritation develops and persists.
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<b>Skin Contact:</b>	Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists.
<b>Inhalation:</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
<b>Ingestion:</b>	If material is ingested, immediately contact a physician or poison control center.

**Most important symptoms and effects, both acute and delayed**

Dusts may irritate the respiratory tract, skin and eyes.

**Indication of any immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

**SECTION 5: FIREFIGHTING MEASURES**

**Suitable Extinguishing media:** DRY sand, sodium chloride powder, graphite powder, copper powder or Lith-X powder. special powder against metal fire. Apply extinguishing media carefully to avoid creating airborne dust. Confining and smothering metal fires is preferable rather than applying water.

**Unsuitable Extinguishing media:** Water. Do not use water jet as an extinguisher, as this will spread the fire. Foam. Carbon dioxide (CO2). Dousing metallic fires with water may generate hydrogen gas, an extremely dangerous explosion hazard, particularly if fire is in a confined environment.

**Special protective equipment and precautions for firefighters** Firefighters should wear full protective clothing including self contained breathing apparatus.

**Specific hazards arising from the chemical** Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed. Water Reactive.

**Advice for firefighters:** Keep containers cool – must be hot to burn. Firefighters should wear butyl rubber boots, gloves and body suit and a self contained breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Ventilate closed spaces before entering them. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

<b>Methods for Containment:</b>	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewers, basements or confined areas. Stop leak if you can do so without risk.
<b>Methods for Cleaning-Up:</b>	Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.  Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

<b>Handling:</b>	Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Prevent dust accumulation to minimize explosion hazard. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.  Use explosion-proof equipment. Explosion-proof general and local exhaust ventilation. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.
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	Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. All equipment used when handling the product must be grounded. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.
<b>General Hygiene Advice:</b>	Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Do not handle or store near an open flame, heat or other sources of ignition. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Keep containers tightly closed in a dry, cool and well-ventilated place. This material can accumulate static charge, which may cause spark and become an ignition source.

## SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Occupational exposure limits

Components	Type	Value	Form
<b>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</b>			
Aluminum (CAS 7429-90-5)	PEL	5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>	Respirable Dust Total Dust
<b>US. ACGIH Threshold Limits</b>			
Aluminum (CAS 7429-90-5)	TWA	1 mg/m <sup>3</sup>	Respirable fraction
<b>US. NIOSH: Pocket Guide to Chemical Hazards</b>			
Aluminum (CAS 7429-90-5)	REL	5mg/m <sup>3</sup> 5mg/m <sup>3</sup> 10mg/m <sup>3</sup>	Respirable Welding fume or pyrophoric powder Total

### Engineering Controls

Explosion-proof general and local exhaust ventilation. Ensure adequate ventilation, especially in confined areas. Keep formation of airborne dusts to a minimum.

### Individual protection measures

**Eye/Face Protection:** Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

**Skin Protection:** Wear suitable protective clothing. Protective gloves.

**Body Protection:** Wear suitable protective clothing

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**General Health and Safety Measures:** Handle according to established industrial hygiene and safety practices.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	NA
Percent Volatile	NA
Solubility	95% Soluble
Appearance	Tan Powder
Odor	Nil
PH	NA
Vapor Pressure	Nil
Evaporation Rate	NA
Specific Gravity	2.60

## SECTION 10: STABILITY AND REACTIVITY

### REACTIVITY

No dangerous reaction known under conditions of normal use.

### CHEMICAL STABILITY

Instability caused by moisture, heat, ignition sources. Stable at normal conditions.

### POSSIBILITY OF HAZARDOUS REACTION

Hazardous polymerization does not occur.

### CONDITIONS TO AVOID

Keep away from heat, sparks and open flame. Avoid high temperatures. Minimize dust generation and accumulation. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust may form explosive mixture in air. Exposure to moisture. Contact with water liberates flammable gas. Contact with incompatible materials.

### INCOMPATIBLE MATERIALS

This product is incompatible with nitrates. Acids. Strong oxidizing agents. Caustics.

### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

**LIKELY ROUTES OF EXPOSURE:**

Skin contact, skin absorption, eye contact, inhalation, and ingestion.

**SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL**

Dusts may irritate the respiratory tract, skin and eyes.

**CHARACTERISTICS:**

**Eye Contact:** Direct contact with eyes may cause temporary irritation.

**Skin Contact:** No adverse effects due to skin contact are expected.

**Inhalation:** Not available.

**Ingestion:** Expected to be a low ingestion hazard.

**Information on toxicological effects**

Components	Type	Species	Test Results
Stearic acid (CAS 57-11-4)	LD50	Rat	4.6 g/kg
Sodium Lignosulfonate	LD50	Rat	>5000mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity**

Organism	Species	Exposure Time	Test Type	Value	Source
Acute Algae	Scenedesmus subspicatus	24, 48, 72h	EC50	> 600mg/l	Similar product
Acute Daphnia	Daphnia magna	24, 48h	EC50	> 1000mg/l	Similar product
Acute fish	Brachydanio rerio		EC50	> 1000mg/l	Similar product

No effect on the environment. Based on existing data, the classification criteria are deemed not to have been met.

**Persistence and degradability**

Partially biodegradable COD: 3300 mg O<sub>2</sub>/L (0.25% solution)

**Bioaccumulative potential**

No bioaccumulation expected.

**Mobility in soil**

Solubility in water: Completely miscible

**Results of PBT and vPvB assessment**

The product does not contain any PBT or vPvB substances.

**Other adverse effects**

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD**

Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

**OTHER DISPOSAL CONSIDERATIONS**

## SECTION 14: TRANSPORT INFORMATION

### DOT

<b>UN number</b>	UN1309
<b>UN proper shipping name</b>	Aluminum Powder, Coated
<b>Transport hazard class(es)</b>	
<b>Class</b>	4.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	4.1
<b>Packing group</b>	II
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### DOT



## SECTION 15: REGULATORY INFORMATION

### US federal regulations

This product contains a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

<b>Hazard categories</b>	Immediate Hazard - No
	Delayed Hazard - No
	Fire Hazard - Yes
	Pressure Hazard - No
	Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.



SARA 311/312 Hazardous No

**DOT Category:** NOT REGULATED  
**HAZARD RATING:** HEALTH 1 Slight Fire 1-Slight REACTIVITY 0-Least

### SECTION 16: OTHER INFORMATION

Keep containers closed when not in use. Solutions can be slippery. Avoid overheating and freezing.  
NOTICE: The above information is presented in good faith and believed to be accurate. No warranty is expressed or implied. Regulatory requirements are subject to change and may vary from on location to another. It is the buyer's responsibility to insure that its activities comply with current Federal, State and Local Laws.

R-CRETE INC. GA 213 Grout Aid 2000

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**Version** 1