

MATERIAL SAFETY DATA SHEET

MSDS of GRLC80 Low Cement Castable

MSDS Name: GRLC80 Low Cement Castable Material Safety Data Sheet

Darco Part Code: GRLC80

CAS:1344-28-1, 14464-46-1

Supplier name: Darco Industries

Section 1 - Chemical Product

MSDS Name: GRLC80 Low Cement Castable Material Safety Data Sheet

Synonym: GRLC80 Low Cement Castable

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
1344-28-1	Aluminum oxide	>80	215-691-6
14464-46-1	Silicon oxide	<15	238-455-4

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

Revised 28/03/2022

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➤ Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Not available.

Potential Health Effects

Eye: Dust may cause mechanical irritation.

Skin: Dust may cause mechanical irritation. Low hazard for usual industrial handling.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation.

Expected to be a low ingestion hazard.

Inhalation: May cause respiratory tract irritation. May cause lung damage.

Chronic: Chronic inhalation of fine dusts may cause lung damage.

➤ Section 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

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Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water.
Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

🔥 Section 5 - FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use extinguishing media appropriate to the surrounding fire.

Substance is noncombustible.

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

🔥 Section 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately,

observing precautions in the Protective Equipment section. Avoid generating dusty conditions.

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Provide ventilation.

➤ Section 7 - HANDLING and STORAGE

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

➤ Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

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🔗 Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: Grey

Odor: odorless

pH: Not available.

Vapor Pressure: Negligible.

Viscosity: Not available.

Boiling Point: 5396 deg F

Freezing/Melting Point: 3632 deg F

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: Not available.

Solubility in water: Negligible in water.

Specific Gravity/Density: 2.0

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Molecular Formula: Al₂O₃

Molecular Weight: 101.9612

🔗 Section 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to Avoid: Incompatible materials, dust generation, excess heat.

Incompatibilities with Other Materials: Reacts with chlorine trifluoride or ethylene oxide.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Has not been reported.

🔗 Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 1344-28-1: BD1200000 LD50/LC50:

Not available.

Carcinogenicity: Aluminum oxide - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

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➤ Section 12 - ECOLOGICAL INFORMATION

➤ Section 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

➤ Section 14 - TRANSPORT INFORMATION

IATA

No information available.

IMO

No information available.

RID/ADR

No information available.

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Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 1344-28-1: 0

United Kingdom Occupational Exposure Limits

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 1344-28-1 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 1344-28-1: OEL-AUSTRALIA:TWA 10 mg/m³

OEL-BELGIUM:TWA 10 mg/m³

OEL-DENMARK:TWA 10 mg/m³

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OEL-FRANCE:TWA 10 mg/m³

OEL-GERMANY:TWA 6 mg/m³

OEL-THE NETHERLANDS:TWA 10 mg/m³

OEL-RUSSIA:STEL 4 mg/m³

OEL-SWITZERLAND:TWA 6 mg/m³

OEL-UNITED KINGDOM:TWA 10 mg/m³;STEL 20 mg/m³

OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

US FEDERAL

TSCA

CAS# 1344-28-1 is not listed on the TSCA inventory.

It is for research and development use only.