



Safety Data Sheet
Commercial Grade Mortar Repair Tube
© Akona Manufacturing LLC.
Version 1.0

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Section 1: Product Identification

Product Type: Sealant & Adhesive

Product Name:

Akona Commercial Grade Mortar Repair

Section 2: Hazard Identification

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance: Gray paste
Physical State: Textured paste
Odor: Mild acrylic

Section 3: Hazardous Ingredients/Composition

Chemical Name	CAS No	Weight-%
Calcium Carbonate	1317-65-3	<40
Acrylic Emulsion	MIXTURE	<30
Crystalline silica	14808-60-7	<10
Benzoate Ester	Proprietary	<7
Titanium dioxide	13463-67-7	<1.0
Non-hazardous Ingredients*	Proprietary	<15
Ammonium Hydroxide	7664-41-7	<0.12
Carbon Black	1333-86-4	<0.05
Petroleum Hydrocarbon	64742-48-9	<0.75

* Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). (Calcium Carbonate, Titanium Dioxide, Carbon Black and Silica) Inhalation of particulates unlikely due to product's physical state. (Carbon Black) May be present in colors other than White.



Section 4: First Aid Measures

First Aid Measures

General Advice:

Provide this SDS to medical personnel for treatment.

Eye Contact:

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek immediate medical attention/advice.

Skin Contact:

Wash with soap and water for at least 15 minutes. Get medical attention if symptoms persist. Remove and wash contaminated clothing.

Inhalation:

Remove to fresh air if breathing is difficult, leave area to obtain fresh air. If breathing remains difficult, get medical attention.

Ingestion:

Do not induce vomiting unless directed by medical personnel. If vomiting occurs, lean patient forward to maintain an open airway and prevent aspiration. Get immediate medical attention.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms:

Prolonged or repeated skin contact may result in dermatitis (red, dry skin). Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness and discomfort. Irritating to mouth, throat, and stomach if ingested. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Overexposure to vapors during application and curing may mildly irritate respiratory tract and result in coughing and sneezing.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians:

Provide general supportive measures and treat symptomatically.
Medical Conditions Aggravated By Exposure: Dermatitis or other pre-existing skin conditions may be aggravated by overexposure to this product.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media:

Carbon dioxide (CO₂). Dry chemical. Water spray (fog). Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: Not determined.



Specific Hazards Arising from the Chemical:

Product is combustible & may ignite if exposed to high temperature or direct flame.

Hazardous combustion products:

Carbon, titanium & iron oxides, depending upon formulation.

Protective Equipment and Precautions for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear protective clothing as described in Section 8 of this safety data sheet.

Other Information:

Small Spills: 1 drum or less – Level D Equipment (gloves, chemical resistant apron, boots and eye protection).

Large Spills: Rubber gloves, rubber boots, face shield & Tyvek suit as a minimum. Minimum level of PPE for releases in which the oxygen level is < 19.5% or is unknown, should be Level B: triple gloves (rubber gloves & nitrile gloves over latex gloves), chemical resistant suit, fire-retardant clothing & boots, hard hat & self-contained breathing apparatus.

For Emergency Responders: Restrict access to spill area.

Environmental precautions:

Minimize use of water to prevent environmental contamination. Prevent spill or rinse from contaminating storm drains, sewers, soil or groundwater. Do not allow discharge containing this material to enter streams, ponds, estuaries, oceans or other waters unless in accordance w/ requirements of National Pollutant Discharge Elimination System (NPDES) permit & permitting authority has been notified in writing prior to discharge. Do not allow discharge containing this material to enter sewer systems w/o previously notifying local sewage treatment plant authority. For information, contact State Water Board or EPA Regional Office.

Other: U.S. regulations may require reporting of spills of this material reaching surface waters if sheen is formed.

Methods and Material for Containment and Cleaning up



Methods for Containment:

Prevent further leakage or spillage if safe to do so. Use absorbent material to contain spill.

Methods for Cleaning Up:

Sweep up absorbed material and shovel into suitable containers for disposal. Wash area with soap and water. For waste disposal, see section 13 of the SDS.

Section 7: Handling and Storage

Precautions for Safe Handling

Advice on Safe Handling:

Avoid breathing vapors. Use only with adequate ventilation. Open windows & doors to ensure fresh air cross-ventilation during application and curing. Wash thoroughly with soap and water after handling. Avoid contact with skin, eyes or clothing. While handling product keep out of reach of children and pets. Do not eat or drink while handling this material. See section 6 of this SDS for clean up instructions.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions:

Keep tightly closed in a dry and cool place. Close container after each use. Store containers away from excessive heat & freezing. Do not store at temperatures above 120°F (49°C). Protect from direct sunlight. Store away from incompatible materials. To maximize shelf life, store at temperatures below 80°F (26°C).

Incompatible Materials:

Strong oxidizing agents. Strong bases.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

Exposure guidelines / protective equipment are for routine handling and accidental spills

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Carbonate 1317-65-3	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust



Crystalline silica 14808-60-7	TWA: 0.025 mg/m ³ respirable fraction	(vacated) TWA: 0.1 mg/m ³ respirable dust : (30)/(%SiO ₂ + 2) mg/m ³ TWA total dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³
Ammonium Hydroxide 7664-41-7	STEL: 35 ppm TWA: 25 ppm	TWA: 50 ppm TWA: 35 mg/m ³ (vacated) STEL: 35 ppm (vacated) STEL: 27 mg/m ³	IDLH: 300 ppm TWA: 25 ppm TWA: 18 mg/m ³ STEL: 35 ppm STEL: 27 mg/m ³
Carbon Black 1333-86-4	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Petroleum Hydrocarbon 64742-48-9	ACGIH TWA: 5 mg/m ³ ; ACGIH STEL: 10 mg/m ³	-	-

Appropriate Engineering Controls

Engineering Controls:

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection:

Use approved safety goggles or safety glasses. If necessary, refer to appropriate regulations & standards.



Skin and Body Protection:

Skin: Wear chemical impervious gloves (eg: Nitrile or Neoprene). Use triple gloves for spill response. If necessary, refer to appropriate regulations and standards.

Body: Use protection appropriate for task (eg: lab coat, coveralls, Tyvek suit). If necessary, refer to OSHA Technical Manual (Sec. VII: Personal Protective Equipment) or appropriate Standards of Canada. Use foot protection, as described in appropriate regulations and standards.

Respiratory Protection:

If mists or sprays are created, use appropriate respiratory protection. Oxygen levels below 19.5% considered IDLH by OSHA. In such instances, use full-facepiece pressure demand SCBA or a full facepiece, supplied air respirator w/ auxillary self-contained air supply.

General Hygiene Considerations:

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State: Textured paste
Appearance: Gray paste
Color: Gray
Odor: Mild acrylic
Odor Threshold: Not determined

<u>Property</u>	<u>Note: The information below is not intended for use in preparing product specifications</u>	<u>Remarks - Method</u>
pH:	7.0-9.0	
Melting Point/Freezing Point:	< 0°C / < 32°F	
Boiling Point/Boiling Range:	Not established	
Flash Point:	> 93.33°C / > 200°F	
Evaporation Rate:	Not determined	
Flammability (Solid, Gas):	Not determined	
Upper Flammability Limits:	Unknown	
Lower Flammability Limits:	Unknown	
Vapor Pressure:	Not established	
Vapor Density:	Heavier than air	
Relative Density (Specific Gravity):	~1.50 – 2.00	@ 25°C (77°F)
Water Solubility:	Appreciable before cure	



Solubility in Other Solvents:	Not determined
Partition Coefficient:	Not determined
Autoignition Temperature:	Unknown
Decomposition Temperature:	Not determined
Kinematic Viscosity:	Not determined
Dynamic Viscosity:	Not determined
Explosive Properties:	Not determined
Oxidizing Properties:	Not determined
VOC Content (%):	<1.5%
VOC Content:	<25 g/L

Section 10: Stability and Reactivity

Reactivity

Cures upon contact with air.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to avoid

Incompatible Materials. Excessive heat or cold.

Incompatible Materials

Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products

Thermal decomposition can generate irritating dust, fumes and toxic gases (carbon, titanium, and iron oxides, depending upon formulation).

Section 11: Toxicological Information

Information on Likely Routes of Exposure

Product Information

Eye Contact:

Eye contact may result in tearing, redness & pain.

Skin Contact:

Prolonged and frequent contact may cause redness and irritation. Repeated skin contact may cause dermatitis.



Inhalation:

Overexposure to vapors during application & curing may mildly irritate respiratory tract and result in coughing & sneezing.

Ingestion:

May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Crystalline silica 14808-60-7	= 500 mg/kg (Rat)	-	-
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat) -	-	-
Ammonium Hydroxide 7664-41-7	= 350 mg/kg (Rat)	-	= 5.1 mg/L (Rat) 1 h = 2000 ppm (Rat) 4 h
Carbon Black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
Petroleum Hydrocarbon 64742-48-9	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	-

Information on Physical, Chemical and Toxicological Effects

Symptoms:

Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Sensitization:

Not known to be human skin or respiratory sensitizers.

Carcinogenicity:

The table below indicates whether each agency has listed any ingredient as a carcinogen. Titanium dioxide is a possible carcinogen when it appears as a respirable dust. Carbon black is a possible carcinogen when it appears as a respirable dust. Crystalline Silica is considered to be a human carcinogen when in respirable form (dust / powder). Trace residual Formaldehyde present in base emulsion viewed as possible cancer hazard.



Chemical Name	ACGIH	IARC	NTP	OSHA
Crystalline silica 14808-60-7	A2	Group 1	Known	X
Titanium dioxide 13463-67-7		Group 2B		X
Carbon Black 1333-86-4	A3	Group 2B		X

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X – Present

Target Organ Effects:

Acute: Eyes & Skin.

Chronic: Skin.

Numerical Measures of Toxicity

Not determined

Section 12: Ecological Information

Ecotoxicity

PRACTICES SHOULD BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

Product not tested for aquatic or animal toxicity. Release of product to terrestrial, atmospheric & aquatic environments should be avoided.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ammonium Hydroxide 7664-41-7		0.44: 96 h Cyprinus carpio mg/L LC50 0.26 - 4.6: 96 h Lepomis macrochirus mg/L LC50 1.17: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.73 - 2.35: 96 h Pimephales promelas mg/L LC50 5.9: 96 h Pimephales promelas		25.4: 48 h Daphnia magna mg/L LC50



		mg/L LC50 static 1.5: 96 h Poecilia reticulata mg/L LC50 1.19: 96 h Poecilia reticulata mg/L LC50 static	
Carbon Black 1333-86-4			5600: 24 h Daphnia magna mg/L EC50
Petroleum Hydrocarbon 64742-48-9		2200: 96 h Pimephales promelas mg/L LC50	2.6: 96 h Chaetogammarus marinus mg/L LC50

Persistence and Degradability

Not tested for persistence & biodegradability

Bioaccumulation

Not tested for bio-accumulation potential

Mobility

Not tested for mobility in soil

Chemical Name	Partition Coefficient
Ammonium Hydroxide 7664-41-7	-1.14

Other Adverse Effects

Environmental Exposure Controls: Should be maintained so as to prevent release to the environment (atmospheric release, release to waterways & spills).

Ozone

Not expected to produce any ozone depletion

Section 13: Disposal Considerations

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.



US EPA Waste Number
Not applicable.

Section 14: Transportation

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated
IATA Not regulated
IMDG Not regulated

Section 15: Regulatory Information

International Inventories

TSCA Listed
DSL Listed
NDSL Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium Hydroxide 7664-41-7	100 lb.	100 lb.	RQ 100 lb final RQ RQ 45.4 kg final RQ



SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 – Threshold Values %
Ammonium Hydroxide 7664-41-7	7664-41-7	<0.12	1.0

CWA (Clean Water Act)

Component	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Ammonium Hydroxide 7664-41-7 (<0.12)	100 lb.			X

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Crystalline silica - 14808-60-7	Carcinogen
Titanium dioxide - 13463-67-7	Carcinogen
Carbon Black - 1333-86-4	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Calcium Carbonate 1317-65-3	X	X	X
Crystalline silica 14808-60-7	X	X	X
Titanium dioxide 13463-67-7	X	X	X
Ammonium Hydroxide 7664-41-7	X	X	X
Carbon Black	X	X	X



1333-86-4			
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Section 16: Other Information

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	1	1	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	1	0	Not determined

Additional information on the products is available at: www.tccmaterials.com

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