



Trade name: Commutator Cement

SECTION 1: Identification

Product identifier used on the label:

Product Name: Commutator Cement

Other means of identification:

Product Code Number: 54-007

Recommended use of the chemical and restrictions on use:

Recommended use: Adhesive

Recommended restrictions: Uses other than those described above.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Company Name: IDEAL INDUSTRIES, INC.

Company Address: Becker Place,
Sycamore, IL 60178

Company Telephone: Office hours (Mon – Fri)
7AM - 5 PM (CDT)
(815)895-5181

Company Contact Name: Darryl Docter.

Company Contact Email: IDEAL@IDEALINDUSTRIES.COM

Emergency phone number: 24 HOUR EMERGENCY NUMBER:
(815)895-5181.

SECTION 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

Physical hazards

None expected.

Health hazards

Specific target organ toxicity, repeated exposure, category 1

Environmental hazards

Not adopted under OSHA paragraph (d) of §1910.1200

GHS Signal word: DANGER

GHS Hazard statement(s): Causes damage to organs through prolonged or repeated exposure.

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GHS Hazard symbol(s):



GHS Precautionary statement(s):

Prevention:

- Do not breathe dust/fume/gas/mist/ vapors/spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.

Response:

- Get medical advice/attention if you feel unwell.

Storage:

- None required.

Disposal:

- Dispose of contents/container to an approved disposal site in accordance with local/regional/national/ international regulations.

Hazard(s) not otherwise

Classified (HNOC): None known.

Percentage of ingredient(s) of unknown acute toxicity:

45% of the mixture consists of ingredients of unknown acute toxicity (oral/dermal/inhalation).

SECTION 3: Composition/information on ingredients

Chemical name	CAS#	Concentration (weight %)
Silica Sand	14808-60-7	< 45%

NOTE: The balance of the ingredients is not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SECTION 4: First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

Inhalation: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Call a physician if symptoms develop.

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Skin contact: Wash immediately with plenty of water and soap for 15 minutes and rinse thoroughly. Remove clothing while washing. Call a physician if symptoms develop.

Eye contact: In case of contact with eyes, flush with water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Do not apply neutralizing agents. Call a physician if symptoms develop.

Ingestion: Do NOT induce vomiting. If swallowed, wash mouth out with water provided the person is conscious. NEVER GIVE LIQUIDS TO AN UNCONCIOUS PERSON. Call a physician if symptoms develop.

Most important symptoms/effects, acute and delayed:

Causes damage to organs through prolonged or repeated exposure.

Indication of immediate medical attention and special treatment needed:

If any symptoms are observed, contact a physician and give them this SDS sheet. Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Not combustible.

Hazardous combustion products may include the following substances: Carbon monoxide, Carbon dioxide, silicon oxides.

Special protective equipment and precautions for fire-fighters:

Use water spray or fog for cooling exposed containers. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate all non-emergency personnel from area. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Isolate the area. Evacuate personnel to safe areas. Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

See Sections 2 and 7 for additional information on hazards and precautionary measures.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways.

Methods and material for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable,

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closed containers for disposal. Dispose of via a licensed waste disposal contractor. See Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: Handling and storage

Precautions for safe handling:

Wear recommended personal protective equipment (See Section 8). Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibles:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Incompatible materials: Strong oxidizing agents. Storage temperature - 40-100 °F.

SECTION 8: Exposure controls/personal protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

Substance	OSHA PEL	ACGIH TLV	NIOSH IDLH
Silica Sand	50 µg/m ³ TWA (listed under Respirable crystalline silica) (250)/(%SiO ₂ + 5) mppcf TWA, respirable fraction; (10)/(%SiO ₂ + 2) mg/m ³ TWA, respirable fraction	0.025 mg/m ³ TWA (respirable particulate matter)	50 mg/m ³ IDLH (respirable dust) 0.05 mg/m ³ TWA (respirable dust)

Appropriate engineering controls:

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Concentrations should be monitored hazardous substances in the workplace in accordance with recognized test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US).

Skin and Hand protection: Wear impervious gloves such as Nitrile rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of

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contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: None normally required. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US).

General hygiene considerations: Eye wash fountains should be located in the work areas. Take off contaminated clothing and shoes immediately. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.):

Physical state: Viscous paste.

Color: Gray.

Odor: Mild odor.

Odor threshold: Not determined.

pH: 10.9

Melting point/freezing point: Not determined.

Initial boiling point and boiling range: None

Flash point: None.

Evaporation rate: Not determined.

Flammability (solid, gas): Not applicable

Upper/lower flammability or explosive limits

Flammability limit – lower (%): Not determined.

Flammability limit – upper (%): Not determined.

Explosive limit – lower (%): Not determined.

Explosive limit – upper (%): Not determined.

Vapor pressure: Not determined.

Vapor density: Not determined.

Relative density: 1.6

Solubility (ies): Infinite.

Partition coefficient (n-octanol/water): Not determined.

Auto-ignition temperature: Not determined.

Decomposition temperature: Not determined.

Viscosity: Not determined

SECTION 10: Stability and reactivity

Reactivity: Not expected to be chemically reactive.

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Chemical stability:	Stable under recommended storage and handling conditions.
Possibility of hazardous reactions:	Hazardous reactions not anticipated.
Conditions to avoid:	Avoid dust formation.
Incompatible materials:	Avoid contact with strong oxidizers.
Hazardous decomposition Products:	None expected, however in case of fire, carbon oxides and silicon oxides may be released.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation: Expected to be a route of exposure

Ingestion: Expected to be a route of exposure

Skin: Expected to be a route of exposure

Eyes: Expected to be a route of exposure

Target Organs: Respiratory, Lungs.

Symptoms related to the physical, chemical, and toxicological characteristics:

Inhalation of dusts causes damage to organs through prolonged or repeated exposure.

Delayed and immediate effects and chronic effects from short or long-term exposure:

No additional information available.

Numerical measures of toxicity (such as acute toxicity estimates):

Substance	Test Type (species)	Value
Silica Sand	LD ₅₀ Oral (Rat)	None known
	LD ₅₀ Dermal (Rabbit)	None known
	LC ₅₀ Inhalation (Rat)	None known

Acute Toxicity: Does not meet the criteria for classification.

Skin corrosion/irritation: Does not meet the criteria for classification.

Serious eye damage/eye irritation: Does not meet the criteria for classification.

Respiratory sensitization: Does not meet the criteria for classification.

Skin sensitization: Does not meet the criteria for classification.

Germ cell mutagenicity: Does not meet the criteria for classification.

Carcinogenicity: Does not meet the criteria for classification.

Reproductive toxicity: Does not meet the criteria for classification.

**Specific target organ toxicity-
Single exposure:** Does not meet the criteria for classification.

**Specific target organ toxicity-
Repeat exposure:** Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard: Does not meet the criteria for classification.

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Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

Component	IARC	NTP	ACGIH	OSHA
Silica Sand	Group 1 (Carcinogenic to Humans)	Known Human Carcinogen (listed under Silica, crystalline (respirable size))	A2 - Suspected Human Carcinogen	Present

SECTION 12: Ecological information

Ecotoxicity (aquatic and terrestrial, where available):

Substance	Test Type	Species	Value
Silica Sand	LC ₅₀	Fish	None known
	EC ₅₀	Aquatic Invertebrates	None known
	EC ₅₀	Algae	None known

Persistence and Degradability:

No data available

Bioaccumulative Potential:

No data available

Mobility in Soil:

No data available

Other adverse effects (such as hazardous to the ozone layer):

No data available

SECTION 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

Product

Dispose of waste materials in accordance with applicable local and national laws and regulations. Where possible, recycling is preferred to disposal or incineration. Contact the proper local authorities.

Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose of as unused product.

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SECTION 14: Transport Information

US Department of Transportation Classification (49CFR)

Not regulated under DOT.

IMDG (Transport by sea)

Not regulated under IMDG.

IATA (Country variations may apply)

Not regulated under IATA.

Environmental hazards

Marine pollutant: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No further relevant information is available.

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

None known.

SECTION 15: Regulatory Information

USA:

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. The product is classified as hazardous under OSHA.

Toxic Substances Control Act (TSCA) - Silica Sand is listed in the TSCA inventory.

CERCLA RQ (lbs) Ingredients (> 0.1%):

Silica Sand is not listed.

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311, 312 and 313:

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) (> 0.1%):

Silica Sand is not listed.

Section 311/312 (40 CFR 370) (> 0.1%):

Specific target organ toxicity (single or repeated exposure)

Section 313 Toxic Release Inventory (40 CFR 372) (> 0.1%):

Silica Sand is not listed.

STATE REGULATIONS:

This SDS contains specific health and safety data that is applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986):

Silica, crystalline (airborne particles of respirable size) is listed as a carcinogen since October 1, 1988.

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Massachusetts Right to Know:

Listed as crystalline silica less than ten microns in size when used in the following processes: abrasive blasting and molding.

New Jersey Right to Know:

Silica, Quartz is listed on the New Jersey Right to Know list.

Pennsylvania Right to Know:

Silica, Quartz is listed on the Pennsylvania Right to Know list.

SECTION 16: Other Information

Revision Date: June 6, 2023

To the best of our knowledge, the information contained herein is accurate. However IDEAL INDUSTRIES INC. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.