



Material Safety Data Sheet
Caustic Spill Cleanup Kit

MSDS# 24868

Section 1 - Chemical Product and Company Identification

MSDS Name: Caustic Spill Cleanup Kit
Catalog Numbers: 18-061C
Synonyms: None Known.
Company Identification: Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
For information in the US, call: 201-796-7100
Emergency Number US: 201-796-7100
CHEMTREC Phone Number. US: 800-424-9300

Section 2 - Composition. Information on Ingredients

Risk Phrases:

CAS#: 77-92-9
Chemical Name: Citric acid
%: >99
EINECS#: 201-069-1
Hazard Symbols:

Risk Phrases:

CAS#: 1393-92-6
Chemical Name: Litmus
%: <.01
EINECS#: 215-739-6
Hazard Symbols:

Risk Phrases:

CAS#: 7631-86-9
Chemical Name: Silica. amorphous (Part B)
%: 100
EINECS#: 231-545-4
Hazard Symbols:

Text for R-phrases: see Section 16

Hazard Symbols: XI



Risk Phrases: 36/37/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! May cause lung damage. Chronic inhalation of crystalline silica may lead to fibrotic lung disease, silicosis or cancer. Causes severe eye irritation and possible injury. Causes skin and respiratory tract irritation. Target Organs: Lungs, respiratory system, eyes, skin.

Potential Health Effects

Eye: Causes severe eye irritation and possible injury.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Excessive intake of citric acid may cause erosion of the teeth.

Inhalation: Causes respiratory tract irritation. Contains crystalline silica which may lead to respiratory abnormalities and silicosis.

Chronic: Repeated exposure may cause erosion of teeth. Prolonged exposure to respirable crystalline quartz may cause delayed lung injury/fibrosis (silicosis).

Section 4 - First Aid Measures

Eyes: Get medical aid. Immediately flush eyes with plenty of water for at least 15 minutes.

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

Ingestion: Do not induce vomiting. 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: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to
Physician:

Section 5 - Fire Fighting Measures

General Information: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition
Temperature: 1010 deg C (1,850.00 deg F)

Flash Point: Not applicable.

Explosion Limits:
Lower: Not available

Explosion Limits:
Upper: Not available

NFPA Rating: health: 2; flammability: 1; instability: 0;

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. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Keep container tightly closed. Avoid ingestion and inhalation. Do not get in eyes. Avoid contact with skin and clothing.

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

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Citric acid	none listed	none listed	none listed

Litmus	none listed	none listed	none listed
Silica, amorphous (Part B)	none listed	6 mg/m3 TWA 3000 mg/m3 IDLH	none listed

OSHA Vacated PELs: Citric acid: None listed Litmus: None listed Silica, amorphous (Part B): None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

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. Wear appropriate protective 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. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder

Color: white

Odor: odorless

pH: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: Not available

Decomposition Temperature: Not available

Solubility in water: Partially soluble

Specific Gravity/Density: Not available.

Molecular Formula: Mixture/Kit

Molecular Weight: 0

Section 10 - Stability and Reactivity

- Chemical Stability: Stable under normal temperatures and pressures.
- Conditions to Avoid: Incompatible materials, none reported. dust generation. moisture.
- Incompatibilities with Other Materials: Metals. strong oxidizing agents, strong reducing agents. strong bases, metal nitrates.
- Hazardous Decomposition Products: None. carbon monoxide, carbon monoxide, carbon dioxide.
- Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

- RTECS#: CAS# 77-92-9: GE7350000
CAS# 1393-92-6: None listed
CAS# 7631-86-9: EU8655000 VV7565000
- RTECS:
CAS# 77-92-9: Draize test, rabbit, eye: 750 ug/24H Severe;
Draize test, rabbit, skin: 500 mg/24H Mild;
Oral, mouse: LD50 = 5040 mg/kg;
Oral, rat: LD50 = 3 gm/kg;
- LD50 LC50: .

RTECS:

CAS# 1393-92-6:.

RTECS:

CAS# 7631-86-9: Draize test. rabbit, eye: 25 mg/24H Mild;

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Citric acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity: Litmus - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Silica, amorphous (Part B) - IARC: Group 3 (not classifiable)

Other: The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Ecotoxicity: Not available

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye face protection.

WGK (Water Danger/Protection)

CAS# 77-92-9: 0

CAS# 1393-92-6: Not available

CAS# 7631-86-9: 0

Canada

CAS# 77-92-9 is listed on Canada's DSL List

CAS# 7631-86-9 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 77-92-9 is listed on Canada's Ingredient Disclosure List

CAS# 1393-92-6 is not listed on Canada's Ingredient Disclosure List.

CAS# 7631-86-9 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 77-92-9 is listed on the TSCA Inventory.

CAS# 1393-92-6 is not listed on the TSCA Inventory. It is for research and development use only.

CAS# 7631-86-9 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/02/1997

Revision #9 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
