

Material Safety Data Sheet

Material Name: Fast PM Powder

*** Section 1 - Chemical Product and Company Identification ***

Manufacturer Information

Science Solutions LLC
825 S. Waukegan Road
Suite A8-226
Lake Forest, IL 60046

Phone: 773-261-1197
Fax: 773-261-1320

*** Section 2 - Hazards Identification ***

Emergency Overview

May cause eye, skin and respiratory tract irritation. May cause gastrointestinal irritation if ingested.

Potential Health Effects: Eyes

May cause eye irritation.

Potential Health Effects: Skin

May cause skin irritation.

Potential Health Effects: Ingestion

May cause gastrointestinal irritation if swallowed.

Potential Health Effects: Inhalation

May cause respiratory irritation.

HMIS Ratings: Health: 1 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
497-19-8	Sodium carbonate	77.97
144-55-8	Sodium bicarbonate	12
77-92-9	Citric acid	5
7681-38-1	Sodium bisulfate	5

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention if irritation persists.

First Aid: Skin

Wash affected areas with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

If swallowed, do NOT induce vomiting. Drink a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

First Aid: Inhalation

If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

None

Hazardous Combustion Products

Not Determined

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Extinguishing Media

Use suitable extinguishing media for surrounding fire.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

* * * Section 6 - Accidental Release Measures * * *

Containment Procedures

Stop the flow of material, if this is without risk.

Clean-Up Procedures

Sweep up or gather material and place in appropriate container for disposal.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

None

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Avoid contact with eyes, skin, and clothing.

Storage Procedures

Keep container closed when not in use. Store containers in a cool, well ventilated place.

* * * Section 8 - Exposure Controls / Personal Protection * * *

A: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Use with adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

None necessary under normal product handling conditions.

Personal Protective Equipment: Skin

None

Personal Protective Equipment: Respiratory

None needed.

Personal Protective Equipment: General

None

* * * Section 9 - Physical & Chemical Properties * * *

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Appearance:	White powder	Odor:	Fragrant
Physical State:	Solid	pH:	ND
Vapor Pressure:	ND	Vapor Density:	ND
Boiling Point:	ND	Melting Point:	NA
Solubility (H2O):	ND	Specific Gravity:	>1
Evaporation Rate:	ND	VOC:	ND
Octanol/H2O Coeff.:	ND	Flash Point:	NA
Flash Point Method:	ND	Upper Flammability Limit (UFL):	ND
Lower Flammability Limit (LFL):	ND	Burning Rate:	ND
Auto Ignition:	ND		

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

None

Incompatibility

None

Hazardous Decomposition

Not Determined.

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

May cause eye, skin and respiratory tract irritation. May cause gastrointestinal irritation if ingested.

B: Component Analysis - LD50/LC50

Sodium carbonate (497-19-8)

Oral LD50 Rat 4090 mg/kg; Dermal LD50 Mouse 2210 mg/kg

Sodium bicarbonate (144-55-8)

Oral LD50 Rat 4220 mg/kg

Sodium bisulfate (7681-38-1)

Oral LD50 Rat 2490 mg/kg

Citric acid (77-92-9)

Oral LD50 Rat 3000 mg/kg

Carcinogenicity

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

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*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Sodium carbonate (497-19-8)

Test & Species

96 Hr LC50 Lepomis macrochirus	300 mg/L [static]
96 Hr LC50 Pimephales promelas	310 - 1220 mg/L [static]
120 Hr EC50 Nitzschia	242 mg/L
48 Hr EC50 Daphnia magna	265 mg/L

Conditions

Sodium bicarbonate (144-55-8)

Test & Species

96 Hr LC50 Lepomis macrochirus	8250-9000 mg/L [static]
120 Hr EC50 Nitzschia linearis	650 mg/L
48 Hr EC50 Daphnia magna	2350 mg/L

Conditions

Sodium bisulfate (7681-38-1)

Test & Species

48 Hr EC50 Daphnia magna	190 mg/L
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Conditions

Citric acid (77-92-9)

Test & Species

96 Hr LC50 Lepomis macrochirus	1516 mg/L [static]
72 Hr EC50 Daphnia magna	120 mg/L

Conditions

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Not Regulated

*** Section 15 - Regulatory Information ***

US Federal Regulations

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Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Sodium carbonate	497-19-8	1 %
Sodium bisulfate	7681-38-1	1 %
Citric acid	77-92-9	1 %

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Sodium carbonate	497-19-8	Yes	DSL	EINECS
Sodium bicarbonate	144-55-8	Yes	DSL	EINECS
Sodium bisulfate	7681-38-1	Yes	DSL	EINECS
Citric acid	77-92-9	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.