



Natrasorb

Safety Data Sheet

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Name:** Natrasorb
Product Code: 502-689X
- 1.2 Intended Use:** Compound used in customer substance/mixture/product.
- 1.3 Supplier:** Spiral Eyes, LLC
29602 Highway 9, #1293
Port Richey, FL 34673
Phone: 413-522-6162
- 1.4 Emergency Telephone Number**
No additional information available.

SECTION 2: Hazards Identification

2.1 Emergency Overview

Appearance:	Powder
Color:	White
Odor:	Mild
Hazard Summary:	Risk of dust explosion

2.2 GHS Classification

Not a hazardous substance or mixture.

2.3 Label Element

Not a hazardous substance or mixture.

2.3 Potential Health Effects

Inhalation: Product dust may be irritating to respiratory system.

Skin: Product dust may be irritating to skin.

Eyes: Product dust may be irritating to eyes.

Ingestion: Not expected to be irritating.

Aggravated Medical Condition: None known.

Symptoms of Overexposure: The symptoms and effects are as expected from the hazards as shown in Section 2. No specific product related symptoms are known.

2.4 Carcinogenicity

IARC: No ingredient of this product is present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

OSHA: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3: Composition/Information on Ingredients

3.1 Substances

Chemical Name	CAS-No.	Classification	Concentration (%)
Ammonium hydrogencarbonate	1066-33-7	Acute Tox, 4; H302	1-5

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

General Advice: No hazards which require special first aid measures.

Inhalation: Remove to fresh air. Keep patient warm and at rest. Rinse nose and mouth with water.

Skin Contact: Remove contaminate clothing and shoes. Rinse with water.

Eye Contact: Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eyes wide open while rinsing.

Ingestion: Clean mouth with water and afterwards, drink plenty of water. Never give anything by mouth to an unconscious person.

4.2 Notes to Physician

Symptoms: The symptoms and defects are as expected from the hazards as shown in Section 2. No specific related symptoms are known.

Risks: No information available.

Treatment: Treat symptomatically.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

Suitable: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable: No information available.

5.2 Special Hazards Arising from the Substance or Mixture

Risks of ignition follow by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

Combustible Products: No hazardous combustion products are known.

5.3 Special Protective Equipment and Precautions for Firefighters

In the event of a fire, wear self contained breathing apparatus.

5.4 Further Information

Standard procedure for chemical fires.

See also Section 9. Physical and Chemical Properties: Safety Data.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions

Avoid dust formation.

6.2 Environmental Precautions

No special environmental precautions required.

6.3 Method and Material for Containment and Clean-up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Additional Advice

For personal protection see Section 8.

SECTION 7: Handling and Storage

7.1 Handling

Advice of Safe Handling:

For personal protection see Section 8. Avoid creating dust. Keep away from heat/sparks/open flames/hot surfaces. No smoking. No special handling device required.

Advice on Protection Against Fire and Explosion:

Provide appropriate exhaust ventilation at places where dust is formed. No sparking tools should be used.

7.2 Storage

Requirements for Storage Areas and Containers:

Store in original container. Keep in a dry place. Store between 40-77°F (5-25°C)
Keep container tightly closed.

Advice on Common Storage:

No special restrictions on storage with other products.

Other Data:

No decomposition if stored and applied as directed.

SECTION 8: Exposure Controls/personal Protection

8.1 Exposure Guidelines

Dust		TWA	50 Million particles per cubic foot	2011-07-01	OSHA Z-3	total dust
	Further Information:		<p>a: Millions of particles per cubic foot of air, based on impinger samples counted by light-field techniques. d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. mppcf X 35.3 = million particles per cubic meter = particles per c.c.</p>			
Dust		TWA	15 mg/m ³	2011-07-01	OSHA Z-3	total dust
	Further Information:		<p>d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.</p>			
Dust		TWA	5 mg/m ³	2011-07-01	OSHA Z-3	respirable fraction
	Further Information:		<p>d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.</p>			
Dust		TWA	15 Million particles per cubic foot	2011-07-01	OSHA Z-3	respirable fraction
	Further Information:		<p>a: Millions of particles per cubic foot of air, based on impinger samples counted by light-field techniques. d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. mppcf X 35.3 = million particles per cubic meter = particles per c.c.-1.</p>			

STEL: Short term exposure limit
TWA: Time weighted average

8.2 Engineering Measures

Provide appropriate exhaust ventilation at places where dust is formed.

8.2 Personal Protective Equipment

Eye/Face Protection:	Safety glasses.
Hand Protection:	Glove material: For prolonged or repeated contact use protective gloves. Protective gloves complying with EN 374.
Respiratory Protection:	No personal respiratory protective equipment normally required. In the case of dust, vapor or aerosol formulation use respirator with an approved filter. Half mask with a particle filter P2 (EN143)
Hygiene Measures:	General industrial hygiene practice.

8.3 Environmental Exposure Controls

No special environmental precautions required.

SECTION 9: Physical and Chemical Properties

9.1 Appearance

Form:	Powder
Color:	White
Odor:	Mild
Odor Threshold:	No data available

9.2 Safety Data

pH:	6.5 - 8 at 9% solution
Melting Point/Range:	No data available
Boiling Point/Range:	Not applicable
Flash Point:	Not applicable
Ignition Temperature:	> 100 °C
Evaporation Rate:	Not applicable
Flammability (Solid, gas):	This product is not flammable.
Lower Explosion Limit:	No data available
Upper explosion Limit:	No data available
Vapor Pressure:	Not applicable
Relative Vapor Density:	Not applicable

Relative Density:	No data available
Water Solubility:	Soluble
Solubility in Other Solvents:	No data available
Partition Coefficient n-octanol/water:	No data available
Autoignition Temperature:	No data available
Decomposition Temperature:	No data available.
Viscosity, Kinematic:	Not applicable
Explosive Properties:	Not explosive
Oxidizing Properties:	The substance/mixture is not classified as oxidizing.

This safety data sheet only contains information relating to safety and does not replace any product information or product specification.

SECTION 10: Stability and Reactivity

10.1 Conditions or Materials to Avoid

None known.

10.2 Hazardous Decomposition Products

No hazardous decomposition products are known.

Thermal Decomposition: No data available.

10.3 Reactivity

Stable under normal conditions.

10.4 Chemical Stability

Stable under recommended storage conditions.

10.5 Hazardous Reactions

Dust may form explosive mixture in air.

SECTION 11: Toxicological Information

11.1 Product Information

Toxicology Assessment: No further data available.

Test Result:

Acute oral toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation Method

11.2 Carcinogenicity

IARC:	No ingredient of this product is present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
OSHA:	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

11.3 Toxicology Data for the Ingredients

Component:	Ammonium hydrogencarbonate
Acute Oral Toxicity:	LD50: ca. 1,576 mg/kg Species: Rat
Skin Irritation:	No skin irritation.
Eye Irritation:	No eye irritation.

SECTION 12: Ecological Information

PRODUCT INFORMATION:

12.1 Ecotoxicology Assessment

Additional Ecological Information: None known.

12.2 Elimination Information (Persistence and Degradability)

Bioaccumulation:	Bioaccumulation is unlikely.
Biodegradability:	Readily biodegradable Read-across (analogy)

12.3 Further Information on Ecology

Hazardous to the ozone layer.

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA section 602 Class I Substances.

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

INGREDIENT INFORMATION:

12.4 Ecotoxicity to Fish

Component: Ammonium hydrogencarbonate

Toxicity to Fish: LC50: 120.13 mg/l
Exposure time: 16 h
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to Bacteria: EC10: 1,680 mg/l
Exposure time: 16 h
Species: Pseudomonas putida

12.5 Elimination Information (Persistence and Degradability)

Bioaccumulation: No data available.
Mobility: No data available.
Biodegradability: No data available.

12.6 Further Information on Ecology

Biochemical Oxygen Demand (BOD): No data available.

SECTION 13: Disposal Considerations

13.1 Waste Disposal

Product Disposal Instructions:
Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

Contaminated Packaging Disposal Instructions:

Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information
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14.1 International Regulation

ADR:	Not regulated as dangerous goods.
UNRTDG:	Not regulated as dangerous goods.
IATA-DGR:	Not regulated as dangerous goods.
IMDG-Code:	Not regulated as dangerous goods.

14.2 Transporting in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

14.3 Further Information for Transport

Not classified as dangerous in the meaning of transport regulations.

14.4 Domestic Regulation

49 CFR:	Not regulated as dangerous goods.
TDG:	Not regulated as dangerous goods.
NOM-002-SCT:	Not regulated as dangerous goods.

SECTION 15: Regulatory information

15.1 Notification Status

CH INV:	YES. On the inventory, or in compliance with the inventory.
TSCA:	YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA inventory exemption.
DSL:	YES. All components of this product are on the Canadian DSL.
AICS:	YES. On the inventory, or in compliance with the inventory.
NZIoC:	YES. On the inventory, or in compliance with the inventory.
ENCS:	YES. On the inventory, or in compliance with the inventory.
ISHL:	YES. On the inventory, or in compliance with the inventory.
KECI:	YES. On the inventory, or in compliance with the inventory.
PICCS:	YES. On the inventory, or in compliance with the inventory.
IECSC:	YES. On the inventory, or in compliance with the inventory.

For explanations of abbreviations, see Section 16

TSCA list: Not relevant.
OSHA Hazards: Combustible dust.

EPCRA - Emergency Planning and Community Right-to-Know
No information available.

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)
Ammonium hydrogencarbonate	1066-33-7	5000 lbs

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA311/312 Hazards: No SARA Hazards.

SARA 302: No chemicals in this material are subjects to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act: This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental release prevention (40 CFR 68.130, Subpart F).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOCs (40 CFR 60.489)

Clean Water Act: The following Hazardous Substances are listed under the U.S. Clean Water Act, Section 311, Table 116.4A:
Ammonium hydrogencarbonate 1066-33-7
The following Hazardous Substances are listed under the U.S. Clean Water Act, Section 311, Table 117.3:
Ammonium hydrogencarbonate 1066-33-7
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

California Prop. 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, of any other reproductive defects.

SECTION 16: Other Information

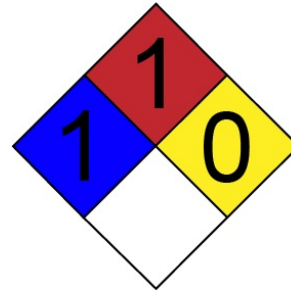
16.1 Full Text of H-Statements

H302 Harmful if swallowed

16.2 Further Information

HMIS Classification: Health Hazard: 1
Flammability: 1
Physical Hazards: 0

NFPA Classification: Health Hazard: 1
Fire Hazard: 1
Reactivity Hazard: 0



16.2 Notification Status Explanation

REACH	1907/2006 (EU)
CH INV	Switzerland. New notified substances and declared preparations
TSCA	United States TSCA Inventory
DSL	Canadian Domestic Substances List (DSL)
AICS	Australia Inventory of Chemical Substances (AICS)
NZIoC	New Zealand. Inventory of Chemical Substances
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Phillipines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of existing Chemical Substances in China (IECSC)

Notes: This safety data sheet is based on the properties of the material known at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment holds no responsibility. This document is not intended for quality assurance purposes.