

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Adsorbent Powder
Product name : BA5374**, BA5379**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Adsorbents

1.3. Details of the supplier of the safety data sheet

Baldwin Filters
4400 E Highway 30
Kearney, NE 68847 - US
T 800-822-5394
info@baldwinfilter.com - www.baldwinfilter.com

1.4. Emergency telephone number

Emergency number : 800-424-9300 Inside the U.S., Canada and the U.S. Virgin Islands
703-527-3887 Outside the U.S. (Collect calls accepted.)

SECTION 2: Hazards identification

Emergency Overview

Form : powder
Color : white
Odor : none
Hazard Summary : Repeated or prolonged exposure may irritate eyes, skin and respiratory system. When first wetted, the product can heat up to the boiling point of water. Flood with water to cool material.

Potential Health Effects

Skin : May cause skin irritation.
The product gets hot as it first adsorbs water.
Eyes : Dust and/or product may cause eye discomfort and/or irritation seen as tearing and reddening.
Ingestion : The product gets hot as it first adsorbs water.
Burns to moist body tissue can result if contact is prolonged.
Inhalation : Exposure to dust particles generated from this material may cause irritation of the respiratory tract.
Chronic Exposure : Prolonged or repeated inhalation may cause lung damage.
Primary Routes of Entry : Contact with skin and eyes.
Exposure may also occur via inhalation or ingestion if product dust is generated.

Classification of the substance or mixture

Not a hazardous substance or mixture.

Precautionary statements : **Prevention:**
Use personal protective equipment as required.
Hazards not otherwise classified : The product gets hot as it first adsorbs water.

Carcinogenicity

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, IARC, or OSHA.

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SECTION 3: Composition/information on ingredients

Chemical nature : Mixture

Chemical Name	CAS NO.	Concentration
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	1318-02-1	100.00 %

Note : Composition as shown represents the chemical composition of the product and is not representing the composition for inventory purposes. See Section 15 for inventory composition.

SECTION 4: First aid measures

Inhalation : Remove to fresh air. If symptoms persist, call a physician.

Skin contact : Wash off with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a physician.

Ingestion : Drink at least 2 glasses of water. Obtain medical attention. Never give anything by mouth to an unconscious person.

Notes to physician

Treatment : This product is a desiccant and generates heat as it adsorbs water. The used product can contain material of a hazardous nature. Identify that material and treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media : Not combustible.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during firefighting : The product itself does not burn.
The used product can retain material of a hazardous nature.
Identify that material and inform the fire fighters.

Special protective equipment for firefighters : In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

SECTION 6: Accidental release measures

Personal precautions : For personal protection see section 8.

Environmental precautions : No special environmental precautions required.

Methods for cleaning up : Sweep, shovel or vacuum spilled product into appropriate containers (do not use a vacuum if material has contacted a hydrocarbon material).
Pick up and arrange disposal without creating dust. Never return spills in original containers for re-use.
Spilled product should be disposed of in accordance with all applicable government regulations.

SECTION 7: Handling and storage

Handling : Handle and open container with care.
Avoid dust formation.
Avoid contact with skin and eyes.
Provide an electrical ground connection during loading and transfer operations to avoid static discharge in an explosive atmosphere and to prevent persons handling the product from receiving static shocks.

Requirements for storage areas and containers : Store in original container.
Keep in a dry place.

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SECTION 8: Exposure controls/personal protection

Protective measures	:	Handle in accordance with good industrial hygiene and safety practice.
Engineering measures	:	Ensure adequate ventilation, especially in confined areas.
Eye protection	:	Safety glasses Safety goggles
Hand protection	:	Protective gloves
Skin and body protection	:	Work uniform and gloves to prevent prolonged contact.
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment Air-purifying respirator with NIOSH classification N-95 filter or P-95 (or equivalent) if oil/liquid aerosols are present (42 CFR 84).

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	1318-02-1	TWA : time weighted average	1 mg/m ³	2008	ACGIH:US, ACGIH Threshold Limit Values
Further information	:	Form of exposure : Respirable fraction.			

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	powder
Color	:	white
Odor	:	none
pH	:	Note: Not applicable
Melting point/freezing point	:	> 400 °C
Boiling point/boiling range	:	Note: Not applicable
Flash point	:	Note: Not applicable
Flammability (solid, gas)	:	Note: Not applicable
Lower explosion limit	:	Note: Not applicable
Upper explosion limit	:	Note: Not applicable
Vapor pressure	:	Note: Not applicable
Vapor density	:	Note: Not applicable
Density	:	> 2.0 g/cm ³
Specific gravity	:	Note: Not applicable
Water Solubility	:	Note: insoluble
Solubility in other solvents	:	Note: Not applicable
Partition coefficient n-octanol/water	:	Note: Not applicable
Ignition temperature	:	Note: Not applicable
Viscosity, kinematic	:	Note: Not applicable
Bulk density	:	Note: Not determined

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SECTION 10: Stability and reactivity

Chemical stability	: Stable
Incompatible materials to avoid	: Sudden contact with high concentrations of chemicals having high heats of adsorption such as olefins, HCl, etc. When first wetted, the product can heat up to the boiling point of water. Flood with water to cool material.
Hazardous decomposition products	: No decomposition if used as directed. Hydrocarbons and other materials that contact the product during normal use can be retained on the product. It is reasonable to expect that decomposition products will come from these retained materials of use.

SECTION 11: Toxicological information

Acute oral toxicity	: LD50: > 5,110 mg/kg Species: Rat
Acute inhalation toxicity	: LC0: > 3.35 mg/l Exposure time: 4 h Species: Rat
Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rabbit
Skin Irritation	: Species: Rabbit Classification: Not classified as a skin irritant in animal testing.
Skin Irritation	: Species: Rabbit Classification: Not classified as an eye irritant in animal testing.
Further information	: Note: The toxicological data has been taken from products of similar composition.

SECTION 12: Ecological information

Ecotoxicity Effects

Toxicity to fish minnow)	: LC50: > 680 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead
Toxicity to daphnia and other aquatic invertebrates	: EC50: 2,808 mg/l Exposure time: 24 h Species: Daphnia magna (Water flea)
Toxicity to algae	: EC50: > 328 mg/l Exposure time: 96 h Species: scenedesmus subspicatus

Elimination information (persistence and degradability)

Bioaccumulation	: Note: no data available
Mobility	: Note: no data available
Biodegradability	: Note: no data available

Further information on ecology

Additional ecological information	: Additional data is available to professional users on request.
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SECTION 13: Disposal considerations

Disposal methods	: This product (in its fresh unused state) is not listed by generic name or trademark name in the U.S. EPA's RCRA regulations and does not possess any of the four identifying characteristics of hazardous waste (ignitability, corrosivity, reactivity or toxicity). Materials of a hazardous nature that contact the product during normal use may be retained on this product. The user of the product must identify the hazards associated with the retained material in order to assess the waste disposal options.
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SECTION 14: Transport information

DOT	: Not dangerous goods
TDG	: Not dangerous goods
IATA	: Not dangerous goods
IMDG	: Not dangerous goods

SECTION 15: Regulatory information

Inventories

US. Toxic Substances Control Act	: On the inventory, or in compliance with the inventory
Australia. Industrial Chemical (Notification and Assessment) Act	: On the inventory, or in compliance with the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	: All components of this product are on the CanadianDSL.
Japan. Kashin-Hou Law List	: On the inventory, or in compliance with the inventory
Korea. Toxic Chemical Control Law (TCCL) List	: On the inventory, or in compliance with the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	: On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances	: On the inventory, or in compliance with the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	: On the inventory, or in compliance with the inventory

National regulatory information

SARA 302 Components	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	: 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.
SARA 311/312 Hazards	: No SARA Hazards
California Prop. 65	: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
WHMIS Classification	: Not Rated This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

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SECTION 16: Other information

		HMIS III	NFPA
Health hazard	:	1	1
Flammability	:	0	0
Physical Hazard	:	1	1
Instability	:		1

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Hastings Premium Filters SDS

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes 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 that exist.