

SAFETY DATA SHEET

Issue Date 04-Jun-2015

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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name Z-Series Air Filtration Media Maintenance

Other means of identification

Product Code FG-GKP-040 (A)

Recommended use of the chemical and restrictions on use

Recommended Use Consult your technical service representative for specific use procedures and instructions.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Supplier ICA Trinova
1 Beavers Street, Suite B
Newnan, GA 30263
(770) 683-9181

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 5
Acute toxicity - Dermal	Category 4

Label elements

Emergency Overview

Warning

Hazard statements

May be harmful if swallowed

Harmful in contact with skin

Causes eye irritation



Appearance No Information available

Physical state Granules

Odor No Information available

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and face and any exposed skin thoroughly after handling.

Precautionary Statements - Response

Specific Measures (see the appropriate section of the SDS)

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other Information**

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Zeolite	1318-02-1	60-100	*
Water	7732-18-5	5-10	*
Sodium Chlorite	7758-19-2	1-5	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures**General advice**

If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Skin Contact

Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Inhalation

Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Ingestion

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.

Self-protection of the first aider

Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed**Symptoms**

No Information available.

Indication of any immediate medical attention and special treatment needed**Note to physicians**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Sodium Chlorite is a known oxidizer; avoid contact with organic matter. *Z-Series* product formulations contain low levels of sodium chlorite and are less reactive than the pure chemical, however as a precaution impregnates should be treated in a similar fashion. Premature or accidental mixture of *Z-Series* media or direct contact of media with acids and/or reducing agents or organic matter may result in the release of gas. Mixing with acids or other chemicals may cause evolution of chlorine dioxide gas, which may be poisonous and explosive. In the event of accidental premature release of gas apply flooding quantities of water to quench reaction, as practical, avoid use of pressurized water.

NOTE: Acid activation is intended to increase the release rate of chlorine dioxide from the granules. DO NOT combine or mix acidifier and Fruit Gard in unapproved containers (i.e., containers that do not allow for the release of the chlorine dioxide gas) or closed containers. Trapped chlorine dioxide gas may decompose and overpressure the container or release heat and cause fire.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation, especially in confined areas. In situations where ventilation is inadequate wear appropriate air-purifying full face respirators. Use a NIOSH/MSHA acid gas approved respirator or equivalent.

Environmental precautions

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

LARGE SPILLS: Evacuate the area. Isolate hazard area and restrict access to necessary and protected personnel. Remove all sources of ignition and contain spill. Cover powder spill with plastic sheet or tarp to minimize spreading. Place contaminated material in a disposal container and thoroughly rinse spill area. Avoid material runoff into storm drains, ditches, or any pathways that lead to waterways. Never discharge into natural bodies of water. Ventilate the area thoroughly.

SMALL SPILLS: Place all contaminated material in a disposal container and thoroughly rinse spill area with water.

US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Except when in use, do not open individual packages to expose media components; keep bulk media containers tightly closed when not in use.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible materials Acids, reducing agents, oxidizers, combustible materials, solvents, paints and sulfur.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls Showers, Eyewash stations & Ventilation systems. Or other control means to minimize airborne exposure. Otherwise, use general exhaust ventilation or other air circulation means.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protection Impervious gloves rubber or latex.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Granules		
Appearance	Off white, light gray.		
Odor	Mild bleach/pool odor.	Odor threshold	No Information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not an Aqueous Solution	
Melting point/freezing point	No Information available	
Boiling point / boiling range	No Information available	
Flash point	None	
Evaporation rate	No Information available	
Flammability (solid, gas)	No Information available	
Flammability Limits in Air		

Upper flammability limit:	No Information available
Lower flammability limit:	No Information available
Vapor pressure	No Information available
Vapor density	No Information available
Specific Gravity	Range 80 to 110 lbs/ft3 packed
Water solubility	1% to 10% at 25 degree centigrade.
Solubility in other solvents	No Information available
Partition coefficient	No Information available
Autoignition temperature	No Information available
Decomposition temperature	Range 250 to 300 degrees Centigrade.
Kinematic viscosity	No Information available
Viscosity	No Information available
Explosive properties	No Information available
Oxidizing properties	No Information available

10. STABILITY AND REACTIVITY

Reactivity

Strong gas may be generated upon contact with reducing agents, acids and/or oxidizers or mishandling of packages or improper storage of packages.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight. Do not combine or mix acidifiers and Z-Series in unapproved containers (i.e., containers that do not allow the release of the chlorine dioxide gas) or closed containers. Trapped chlorine dioxide gas may decompose and overpressure the container or release heat and cause fire.

Incompatible materials

DO NOT mix with acids or other chemical except as provided for in the "Directions for Use". Mixing with acids or other chemicals may cause evolution of chlorine dioxide gas, which may be poisonous and explosive.

Hazardous Decomposition Products

Avoid ignition sources and extended exposure to heat, moisture and ultraviolet light.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	No data available
Inhalation	Inhalation may cause irritation of the mucous membranes and respiratory system characterized by coughing, burning, and sneezing. Extreme overexposure may result in lung damage.
Eye contact	Eye irritation may result from prolonged exposure to low levels of dust.
Skin Contact	Harmful in contact with skin.
Ingestion	May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Chlorite 7758-19-2	= 165 mg/kg (Rat)	= 107.2 mg/kg (Rabbit)	= 230 mg/m ³ (Rat) 4 h

Information on toxicological effects

Symptoms No Information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No Information available.
Germ cell mutagenicity No Information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Zeolite 1318-02-1	-	Group 3	-	-
Sodium Chlorite 7758-19-2	-	Group 3	-	-

*IARC (International Agency for Research on Cancer)
 Not classifiable as a human carcinogen*

Reproductive toxicity No Information available.
STOT - single exposure No Information available.
STOT - repeated exposure No Information available.
Aspiration hazard No Information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity
 The following values are calculated based on chapter 3.1 of the GHS document .

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Zeolite 1318-02-1	18: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	1800: 96 h <i>Brachydanio rerio</i> mg/L LC50 semi-static 3200 - 5600: 96 h <i>Oryzias latipes</i> mg/L LC50 semi-static 1800 - 3200: 96 h <i>Poecilia reticulata</i> mg/L LC50 semi-static	1000 - 1800: 48 h <i>Daphnia magna</i> mg/L EC50
Sodium Chlorite 7758-19-2	-	100 - 500: 96 h <i>Brachydanio rerio</i> mg/L LC50 static 100: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 100: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	0.026: 48 h <i>Daphnia magna</i> mg/L EC50 0.25 - 0.33: 48 h <i>Daphnia magna</i> mg/L EC50 Flow through 0.012 - 0.018: 48 h <i>Daphnia magna</i> mg/L EC50 Static

Persistence and degradability

No Information available.

Bioaccumulation

No Information available.

Other adverse effects

No Information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium Chlorite 7758-19-2	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION

NFPA	Health hazards 2	Flammability 0	Instability 0	Physical and Chemical Properties Yes
HMIS	Health hazards 2	Flammability 0	Physical hazards 0	Personal protection N/A

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Revision Note

No Information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet