NAT URAL CHEMISTRY

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Natural Yard and Kennel Spray

CAS # Mixture

Product use Flea and tick control

Manufacturer Natural Chemistry, Inc.
40 Richards Ave.

Norwalk, CT 06854 US Phone: (800) 753-1233

Emergency Phone: CHEMTREC (800) 424-9300

2. Hazards Identification

Emergency overview WARNING

EYE AND SKIN IRRITANT.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

Skin Contact with skin can cause irritation and allergic reaction (sensitization) in some

individuals.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

OSHA Regulatory Status This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

environmental concerns.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Sulfuric acid, mono-C10-C16 alkyl esters, sodium salts	68585-47-7	4.3
Benzaldehyde, 4-hydroxy-3-methoxy-	121-33-5	1.8
Oils, cinnamon	8015-91-6	1.8

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that

medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with

eyes and skin. Keep out of reach of children.

	5. Fire Fig	hting Measures	
Flammable properties	Not flammable by OSHA criteria.		
Extinguishing media			
Suitable extinguishing media	Dry chemical. Water spray. Foam. Carbon dioxide.		
Unsuitable extinguishing media	a Not available		
Protection of firefighters			
Specific hazards arising from the chemical	Not available		
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.		
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of sulphur.		
Explosion data			
Sensitivity to mechanical impact	Not available		
Sensitivity to static discharge	Not available		
	6. Accidental	Release Measures	
Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.		
Environmental precautions	Do not contaminate water.		
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.		
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergence services and supplier for advice. Never return spills in original containers for re-use.		
	7. Handli	ng and Storage	
Handling	Use good industrial hygiene practices in handling this material.		
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials.		
8. Exp	osure Contr	ols / Personal Protection	
Exposure limits Ingredient(s)		Exposure Limits	
Benzaldehyde, 4-hydroxy-3-methoxy-		ACGIH-TLV	
		Not established	
		OSHA-PEL	
		Not established	
Oils, cinnamon		ACGIH-TLV	
		Not established	
		OSHA-PEL	
		Not established	
Sulfuric acid, mono-C10-C16 alkyl esters, sodium salts		ACGIH-TLV	
		Not established	
		OSHA-PEL	
		Not established	
Engineering controls	General ventilation normally adequate.		
Personal protective equipment			

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Rubber gloves. Confirm with a reputable supplier first.

Wear safety glasses with side shields.

Eye / face protection

Hand protection

Skin and body protection

As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Clear. **Appearance** Color Light brown **Form** Spray

Odor Slight cinnamon Not available Odor threshold Liquid Physical state 6.1 - 6.3pΗ Not available **Melting point** Not available Freezing point Not available **Boiling point**

> 200 °F (> 93.33 °C) Flash point

Auto-ignition temperature Not available Flammability limits in air, lower, %

by volume

Pour point

Evaporation rate

Not available

Not available Not available

Flammability limits in air, upper, %

by volume

Not available

Vapor pressure Not available Not available Vapor density

1.01 Specific gravity

Octanol/water coefficient Not available Not available Solubility (H2O) VOC (Weight %) Not available Softening point Not available Not available **Viscosity** Not available Percent volatile

10. Stability and Reactivity

None known. Reactivity

Hazardous polymerization does not occur. Possibility of hazardous reactions Stable under recommended storage conditions. Chemical stability

Conditions to avoid Do not mix with other chemicals. Acids. Oxidizers. Caustics. Incompatible materials

Hazardous decomposition products May include and are not limited to: Oxides of carbon. Oxides of sulphur.

11. Toxicological Information

Component analysis - LC50 LC50 Ingredient(s) Not available Benzaldehyde, 4-hydroxy-3-methoxy-Oils, cinnamon Not available Sulfuric acid, mono-C10-C16 alkyl esters, sodium salts Not available Component analysis - Oral LD50

Ingredient(s)

Benzaldehyde, 4-hydroxy-3-methoxy
Oils, cinnamon

2650 mg/kg rat

Sulfuric acid, mono-C10-C16 alkyl esters, sodium salts

1300 mg/kg rat

Effects of acute exposure

Eye May cause irritation.

Skin Contact with skin can cause irritation and allergic reaction (sensitization) in some

individuals.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization
Chronic effects
Non-hazardous by OSHA criteria.
Carcinogenicity
Non-hazardous by OSHA criteria.
Mutagenicity
Non-hazardous by OSHA criteria.
Non-hazardous by OSHA criteria.
Reproductive effects
Non-hazardous by OSHA criteria.
Teratogenicity
Non-hazardous by OSHA criteria.

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

EcotoxicityComponents of this product have been identified as having potential environmental

concerns.

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Benzaldehyde, 121-33-5 96 Hr LC50 Pimephales promelas: 53-61.3 mg/L [flow-through]; 96 Hr LC50 Pimephales

4-hydroxy-3-methoxy- promelas: 88 mg/L [static]; 96 Hr LC50 Pimephales promelas: 57 mg/L [semi-static]

Ecotoxicity - Water Flea - Acute Toxicity Data

Benzaldehyde, 121-33-5 24 Hr EC50 Daphnia magna: 180 mg/L

4-hydroxy-3-methoxy-

Persistence / degradability

Bioaccumulation / accumulation

Mobility in environmental media

Environmental effects

Aquatic toxicity

Partition coefficient

Chemical fate information

Not available

Not available

Not available

13. Disposal Considerations

Disposal instructions Review federal, state and local government requirements prior to disposal.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

Yes

chemical

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

Flea and tick control. Minimum risk pesticide. This product has not been registered by the US EPA. Natural Chemistry, Inc. represents that this product qualifies for exemption from registration under the FIFRA Act.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available

State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

Inventory status

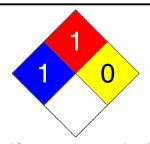
Country(s) or regionInventory nameOn inventory (yes/no)*United States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information







Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first

page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.