

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name De Flea Pet & Bedding Spray

CAS # Mixture
Product use Pesticide

Manufacturer Natural Chemistry, Inc. 40 Richards Ave.

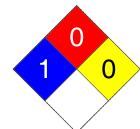
Norwalk, CT 06854 US Phone: (800) 753-1233

Emergency Phone: CHEMTREC (800) 424-9300

LEGEND
HMIS/NFPA

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0





2. Hazards Identification

Emergency overview CAUTION

EYE AND SKIN IRRITANT.

Potential short term health effects

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

EyesMay cause irritation.SkinMay cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin. Respiratory system.

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.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt	577-11-7	2.5 - 10

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. Rinse mouth with water, then drink one or two glasses of water.

Obtain medical attention. Never give anything by mouth if victim is unconscious, or is

convulsing.

Notes to physician Symptoms may be delayed.

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 Fighting Measures

Flammable properties

Not flammable by OSHA criteria.

Extinguishing media

Suitable extinguishing media

Treat for surrounding material.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

Hazardous combustion products

Firefighters should wear full protective clothing including self contained breathing

firefighters

May include and are not limited to: Oxides of carbon.

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.

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 emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling 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. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)

Exposure Limits

Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester,

sodium salt

Not established

ACGIH-TLV

OSHA-PEL Not established

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields.

Hand protection

Rubber gloves. Confirm with a reputable supplier first.

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.

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Appearance Not available Color Light mint green

Liquid **Form**

Odor Not available Odor threshold Not available Physical state Liquid 7.3 - 7.8Нα Freezing point Not available Not available **Boiling point** Flash point Not available Not available **Evaporation rate** Flammability limits in air, lower, % Not available

by volume

Not available

Flammability limits in air, upper, % by volume

Not available Vapor pressure Not available Vapor density

1 Specific gravity 8.33 Relative density

Octanol/water coefficient Not available Solubility (H2O) Miscible Not available Auto-ignition temperature

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals.

Acids. Oxidizers. Incompatible materials

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

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s) LC50

Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, Not available

sodium salt

Component analysis - Oral LD50

Ingredient(s) LD50

Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, 2643 mg/kg mouse; 1900 mg/kg rat

sodium salt

Effects of acute exposure

Eve May cause irritation. May cause irritation. Skin

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

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

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental

concerns.

Ecotoxicity - Freshwater Fish Species Data

Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, 577-11-7

96 Hr LC50 Oncorhynchus mykiss: 28 mg/L [semi-static]; 96 Hr LC50 Lepomis

macrochirus: 37 mg/L [static]

sodium salt

Ecotoxicity - Water Flea Data

Butanedioic acid, sulfo-,

577-11-7

48 Hr EC50 Daphnia magna: 36 mg/L

1,4-bis(2-ethylhexyl) ester, sodium salt

Environmental effects Not available Not available Aquatic toxicity Persistence / degradability Not available Not available Bioaccumulation / accumulation Partition coefficient Not available

Not available Mobility in environmental media Not available Chemical fate information

13. Disposal Considerations

Waste codes

Not available

Disposal instructions

Review federal, provincial, and local government requirements prior to disposal.

Waste from residues / unused

Not available

products

Not available Contaminated packaging

14. Transport Information

Department of Transportation (DOT)

Not regulated as dangerous goods.

15. Regulatory Information

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

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 Not available Safe Drinking Water Act (SDWA) Not available **Drug Enforcement Agency (DEA)** Food and Drug Administration Not available

(FDA)

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

cancer, birth defects or other reproductive harm.

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

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

Yes

use of or reliance on any information contained in this document.

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