



SAFETY DATA SHEET (SDS)

Date Revised : 01 / 15

Supersedes : 04 / 14

PURE CITRUS ORANGE

Natural Air Freshener Spray
Made from Essential Oils of Orange

SECTION 1 : IDENTIFICATION OF SUBSTANCE / COMPANY

PRODUCT NAME / IDENTIFIER :

PRIMARY APPLICATION / RECOMMENDED USAGE :

DISTRIBUTED EXCLUSIVELY BY :

INFORMATION TELEPHONE :

EMERGENCY TELEPHONE :

“ PURE CITRUS ORANGE ” Natural Air Freshener

Natural Essential Oils extracted from citrus fruits eliminate odors instantly & leaves air smelling clean . Since this product dispenses no petrogases (propane / butane) , its non-aerosol container serves as an aerosol type easily dispensing product into the air by the touch of a valve .
HEALTHY CLEAN BUILDINGS

4 Wilmington Drive

Melville, New York 11747

1-631-643-1882

Medical : Contact your local Poison Control Center

CHEMICAL EMERGENCY RESPONSE (24 Hour) Contact :

CHEMTREC: (Reference : Technical Chemical Co dba/Blue Magic)

Toll-Free : 1- 800 – 424-9300

Note : ChemTrec should be contacted only in the event of a chemical mishap involving fire, spill, exposure or other emergency conditions involving the chemical described within this SDS sheet .

SECTION 2 : HAZARD(S) IDENTIFICATION

Emergency Overview : In its normal , packaged form , this product , as a mixture, does not present any health hazards . This product contains no hazardous ingredients or carcinogens (NTP, IARC, or OSHA) . Use as label directed . Food and Drug Administration evaluation was GRAS . FEMA evaluation was GRAS . Over-exposure to citrus terpenes may result in Skin Irritation and Contact Dermatitis . Pre-existing disorders of the skin, eyes, and respiratory tract may be exacerbated by citrus terpenes .

Chemical Ingredient Name : N/A

Remaining ingredients are non-hazardous and/or present at amounts below reportable limits and considered confidential

Classification of the substance or mixture (GHS-US) : Mixture ,

- Flammable Liquid , (Chapter 2.6) ; Hazard Category 4 .
- Gases under pressure , (Chapter 2.5) ; Hazard Category : Compressed gas
- Skin Irritation , (Chapter 3.2) ; Hazard Category : 2A
- Specific Target Organ Toxicity , Single Exposure : Respiratory Tract Irritation (Chapter 3.8) : Hazard Category 3 .

Label Elements : N / A

Signal Word : WARNING

Hazard Statement :

- Flammable Liquid and Vapor 2 H225
- Skin Irritation 2 H315 .
- Skin Sensitivity 1 H317
- Eye Irritation 1 H320
- Inhalation H334 + H335

Hazard Statements :

- H315 – Causes Skin Irritation in concentration .
- H317 – May cause an allergic skin reaction .
- H320 – May cause eye irritation in concentration .
- H334 + H335 – May cause Respiratory Irritation or an Allergic Reaction .



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Hazard Symbol : Skin & Eye Irritant



Flammable under Abnormal Conditions



Compressed air.

.....Under Abnormal Conditions under Abnormal Conditions..... under pressure

Ingredients with Unknown Acute Toxicity : No Data Available

HAZARDOUS IDENTIFICATION (continued)

- Precautionary Statements**
- P101 : If medical advice is required, have product container or label available .
 - P102 Keep Out of Reach of Children
 - P103 . Read Label Before Use .
 - P261 – Avoid breathing dust/mist/spray in concentration .
 - P264 - Wash hands and forearms thoroughly after handling
 - P280 – Wear Protective gloves/eye protection
 - P302 + P352 – If on skin, wash with plenty of soap and water
 - P305+P351+P338 – If in eyes, rinse cautiously with water for several minutes .
If easy to do, remove contact lenses .Continue rinsing
 - P337+P313 – If eye irritation persists , get medical advice/attention .
- FLAMMABLE . Keep Away from Fire or Flame
 - Do Not Use near Eyes . In case of eye contact , Flush thoroughly with water and seek medical attention .
 - If any adverse condition , irritation, or redness persists for more than 72 hours , stop use and seek medical attention .
 - _ KEEP OUT OF REACH OF CHILDREN

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS :

Chemical characterization : A 100 % Bio-based Natural Citrus Air Freshener dispensed through a Non-aerosol (No Propane / No Butane) can containing Compressed Air and a “press-down “ valve . Contains aromatic “natural” oils extracted from fresh citrus fruits . These pure essential citrus oils eliminates foul odors instantly .

FULL INGREDIENT DISCLOSURE :

<u>Chemical Ingredient Name :</u>	<u>CAS Number :</u>	<u>EINECS/ELINCS :</u>	<u>Wt % :</u>	<u>OSHA PEL :</u>	<u>ACGIH TLV :</u>
Orange Oil Extractives	8028-48-6	ND	60-100%	ND	ND
Citrus Extractives	94266-47-4	ND	Trade Secret	ND	ND
Grapefruit Terpenes	68917-32-8	ND	Trade Secret	ND	ND
Tangerine Terpenes	68608-38-8	ND	Trade Secret	ND	ND

NOTE : Exact percentages and identities are withhold as trade secrets . Ingredients are non-hazardous and / or present at amounts below reportable limits and considered confidential .

SECTION 4 : FIRST AID MEASURES

Description of Necessary Measures :

- After Inhalation :** If dizziness or faintness occurs , move to fresh air ; or provide fresh air by ventilation . Consult a doctor if adverse conditions persist .
- After Skin Contact :** In case of severe irritation , immediately wash affected areas with soap and water .If dryness occurs , treat affected area with a skin moisturizing cream .Remove affected clothing and wash all exposed skin area with plenty of water . If skin irritation or rash persists, seek medical attention .
- After Eye Contact :** Prolonged exposure may cause mild irritation to the eye tissue if not removed . In case of extreme contact , immediately flush eyes with large quantities of warm running water for 15 minutes , lifting upper and lower lids occasionally . If easy to do, remove contact lenses Continue water rinsing . If eye irritation persists, seek medical attention .



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SECTION 7 : HANDLING & STORAGE REQUIREMENTS

KEEP OUT OF REACH OF CHILDREN

Precautions for Safe Handling : Read product literature, label , and SDS before use . Use product strictly according to label directions . Keep away from heat, sparks, flame, or any other ignition source . Do Not expose to temperatures above 120 °F (48.9 °C) . Provide adequate ventilation in storage area . Do Not directly inhale mist from this product . Wash hands and other exposed areas with soap and water before eating, drinking, smoking; or when leaving work . Avoid spillage or container rupture of the product . Avoid personal contamination after a spill . Avoid contact with eyes and skin .

Hygiene Measures : Practice good hygiene and housekeeping measures . Wash hands and forearms thoroughly after handling . Launder soiled, contaminated clothing before re-use .

Safe Storage Conditions : CONTENTS UNDER PRESSURE : Do Not Puncture or Incinerate . Keep in original container in a cool , dry, well-ventilated place away from open flames . Do Not expose to temperatures above 120 °F (48.9 °C) . Keep container away from direct sunlight and incompatible products (ie : high pH alkalis, low pH acids, or oxidizing agents (see Section 10) . Do Not Freeze . Store in temperatures between 40 – 70° F . Keep container closed when not in use .

Incompatible Products : Strong oxidizing agents / low pH acids including acidic clays , peroxides , halogens , vinyl chloride , and iodine pentafluoride .
Incompatible Circumstances : Not Known

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Control Parameters : Industrial Setting (see Section 3) for Ingredients with Occupational Exposure Limits .

Engineering Controls : This is a consumer product that is relatively safe under normal use . For industrial settings, use in well-ventilated areas.

Local Exhaust : Use in a well-ventilated area .

Occupational Exposure Limits : No Additional Information Available

Personal Protective Equipment : When using this product as directed on the label , no protective equipment is necessary . Take same precautions as when using any other spray air freshening product . Avoid unnecessary exposure

Hand protection : Not necessary but good practice (optional) to wear chemical –resistant gloves (ie.: nitrile gloves) when over-exposure and / or handling is an issue . Chemical - resistant boots, apron, or body suit can be worn if necessary .

Eye Protection : Chemical goggles or safety glasses

Respiratory Protection : Not necessary but good practice (optional) to wear appropriate mask . In an industrial setting under extreme abnormal conditions where inadequate ventilation exists, use a NIOSH-approved air-purifying respirator with an organic vapor cartridge or canister .

Work / Hygienic Practices : Wash hands and forearms after handling . Launder contaminated clothing before re-use .

Other Information : Do Not eat, drink, or smoke during use

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Water Thin , Liquid
pH (as is) : NA

Color : Colorless - Yellow

Odor : Citrus Orange

Relative Evaporation Rate (Butyl Acetate = 1) : 0.2

Melting Point : –140 °F (–96 °C)

Freezing Point : –140 °F (–96 °C)

VOC Content : 60-65 % **Initial Boiling Point :** 349 °F (176 °C)

Flashpoint : > 110 °F (43 °C) -CCCFP

Solubility in Water : Insoluble

Specific Gravity (Water = 1) : 0.838-0.843 g/mL @ 77 °F (25°C)

Flammability : Yes ; H-225 ; Combustible

Explosive Limits : Undetermined

Vapor Pressure : < 2mmHg

Relative Density : Undetermined

Partition coefficient : (n-octanol/water) Undetermined **Auto-ignition Temperature :** Undetermined

Decomposition Temp. : Undetermined

SECTION 10 : STABILITY AND REACTIVITY

Reactivity : Yes (see Section 7 –Handling / Storage)

Chemical stability : Stable under Normal Conditions **Possibility of Hazardous Reactions :** Yes (see Section 7 –Handling / Storage)

Conditions to Avoid : Extremely High or Low Temperatures ; Ignition Sources (sparks, flames) , Incompatible Substances

Incompatible Materials : High pH Alkalis / Low pH Acids , Strong Oxidizing and Reducing Agents .

Hazardous Decomposition By-products : Oxides of Citrus Terpenes (known to cause Skin Sensitization) due to improper storage and handling .

Fumes Hazardous Polymerization : Should not occur .



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SECTION 11 : TOXICOLOGICAL INFORMATION

Information on Toxicological Effects :

Likely Routes of Exposure :

Inhalation : Relatively No Irritating Effect

Skin Contact : Not expected to be Irritating or Sensitizing .

Eye Contact : May Cause Mild , Transient Irritating Effect

Ingestion : Oral toxicity is not anticipated , but may cause stomach distress ,
nausea , or vomiting .,

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics : No Further Information

Available Delayed and Immediate Effects (Chronic Effects from Short and Long Term Exposure) : No Further Information

Measures of Toxicity : No Further Information Available

Teratogenicity, Mutagenicity : No Data Available

Reproductive Toxicity : Not Classified

Specific Target Organ Toxicity (Single Exposure) : Not Classified

Specific Target Organ Toxicity (Repeated Exposure) : Not Classified

Carcinogenic Categories : Not expected to be carcinogenic

Acute Toxicity : There is No LD50 or LC information available for humans .

Product / Ingredient Name :	CAS # :	Result :	Species :	Dose :
Orange Oil Extractives	8028-48-6	Oral Toxicity – LD50	Rabbits	>5 g / kg
Citrus Extractives	94266-47-4	Dermal Toxicity – LD50	Rabbits	>5 g / kg
		Low Toxicity by Inhalation - RD50	Mice	>1 g / kg

Conclusion / Summary : Relatively Minimal Toxicity to Humans

Skin Sensitization : Not classified , except for personal allergic reactions .

Serious Eye Damage / Irritation : Not classified

Respiratory Sensitization : Not classified

Mutagenicity : Conclusion / Summary – Not Available

Carcinogenicity : Conclusion / Summary – Not Available

Reproductive Toxicity : Conclusion / Summary – Not Available

Teratogenicity : Not Available

Potential Acute Health Effects :

Inhalation : Relatively Minimal Respiratory Irritation or Critical Hazards

Skin Contact : Relatively Minimal Skin Irritation or Critical Hazards

Eye Contact : May Cause Eye Irritation Under Extreme Conditions .

Ingestion : May Upset Stomach , Cause Nausea or Vomiting under Extreme Conditions .

Conclusion / Summary :

General : No Known Significant Effects or Critical Hazards

Carcinogenicity : Not Classified as a Carcinogen by OSHA, IARC, ACGIH, or NTP .

Mutagenicity : No Known Significant Effects or Critical Hazards

Teratogenicity : No Known Significant Effects or Critical Hazards

Developmental Effects : Does Not Contain Known Developmental Toxins

Fertility Effects : Does Not Contain Known Reproductive Toxins



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SECTION 12 : ECOLOGICAL INFORMATION

(+) – Citrus Extractives (limonene - 5989-27-5) :

LC50 Fish 1720 mg/l (96 h; Pimephales Promelas ; Lethal)
EC50 Daphnia 10.36 mg/l (48 h; Daphnia Magna; GLP)
LC50 Fish 2702 mg/l (96 h; Pimephales Promelas)
Threshold Limit Algae 1150 mg/l (72 h, Desmodesmus Subspicatus ; GLP)
Threshold Limit Algae 22.62 mg/l (72 h, Desmodesmus Subspicatus)

(+) – Citrus Extractives (limonene - 5989-27-5) :

Persistence and DegradabilityReadily Biodegradable in Water . Forming Sediments n Water . Absorbs into Soil .
ThOD3.29 g O₂ /g Substance

(+) – Citrus Extractives (limonene - 5989-27-5) :

BCF Fish 1864.8 – 1022 (Pisces; Fresh Weight)
Log Pow4.38 (Experimental Value :) OECD 117 : Partition Coefficient (n-octanol/water ; HPLC Method 37 ° C)
Bioaccumulative Potential4 > Log Kow ≤ 5

BIOACCUMULATIVE POTENTIAL :

“Pure Citrus Orange ” (As a Total Product)Not Established

TERRESTRIAL TOXICITY :No Additional Information Available

MOBILITY IN SOIL:No Additional Information Available

OTHER ADVERSE EFFECTS :

Effect on Ozone LayerNo Additional Information Available

Effect on Global Warming :No Additional Information Available

NOTE : The product's ingredients are expected to have minimal toxicity and are relatively safe for the environment at concentrations predicted under normal use and accidental spill conditions . Packaging components are compatible with conventional solid waste management practices .

SECTION 13 : DISPOSAL CONSIDERATIONS

Methods of Disposal : The generation of waste should be avoided or minimized wherever possible . Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant . Dispose of surplus and non-recyclable products via a licensed waste disposal contractor . Disposable of this concentrated product , diluted solutions, and any by-product should at all times comply with the requirements of environmental and waste disposal legislation ; and any regional local authority requirements . Avoid dispersal of spilt material and run-off and contact with soil, waterways, drains, & sewers .

Waste Disposal Recommendations : Dispose in safe manner in accordance with local / state/federal regulations . Dispose of contents / container in accordance with local/regional/national/international regulations . Can be incinerated with waste stream after consulting with the waste disposal facility operator and the pertinent authorities while adhering to the necessary regulations .

Packaging Disposal : Waste packaging should be recycled . Incineration or landfill should only be considered when recycling is not feasible . This material and its container must be disposed of in a safe way . Care should be taken when handling emptied containers that have not been cleaned or rinsed out . Empty containers or liner may retain some product residues . Vapor from product residues may create a highly flammable or explosive atmosphere inside the container . Do Not cut, weld, or grind used containers unless they have been cleaned thoroughly internally . Avoid dispersal of spilt material and run-off and contact with soil, waterways, drains, & sewers .

Waste Disposal Recommendations : Dispose in safe manner in accordance with local / state/federal regulations.

Dispose of contents / container in accordance with local/regional/national/international regulations . Can be incinerated with waste stream after consulting with the waste disposal facility operator and the pertinent authorities while adhering to the necessary regulations .

Ecology – Waste Materials : Avoid release into environment .

Recommended Cleansing Agents : Water Only



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SECTION 14 : TRANSPORT INFORMATION

TRANSPORT INFORMATION : United States of America :

Shipment :	I.D. # :	Proper Shipping Name :
US DOT (< 5L / 1.3 gallons) 8000 , Class 9.....		CONSUMER COMMODITY , ORM-D
US DOT (> 5L / 1.3 gallons)..... UN2319 , Class 3 , PG III		Terpene Hydrocarbons , N.O.S.
AIR (IATA) Aerosols, 2.2 , UN1950, ERG # 126		CONSUMER COMMODITY , ORM-D
OCEAN (IMDG) Aerosols, 2.2 , UN1950, Ltd. Qty , EMS # 2-13 , MFAG # 620.		

UN Number : 1950
NAFTA HS Code : 3301.120000
Other Additional Information : No Other Special Precautions with Transport are Known .

SECTION 15 : REGULATORY INFORMATION

UNITED STATES FEDERAL REGULATIONS :

FDA : This product is regulated as an Over-The-Counter (OTC) drug under the Federal Food, Drug, and Cosmetics Act and complies with FDA regulations .

US-EPA (Environmental Protection Agency) : NA

US TSCA Inventory Status : All chemicals in this product are either listed on or exempt from the TSCA inventory

SARA Title III Sections 302 Chemical Listings : None or none present in regulated quantities under SARA, Title III, Section 313 .
SARA 313 Components : d-Limonene (CAS # 8028 48-6)

CAA – Section 112 Listings (TQ) : None CERLCA Reportable Quantity (RQ) : NA

RCRA CODE : NA

California Proposition 65 : This product in not known to contain any chemicals currently listed under California Proposition 65 at reportable levels .

Massachusetts Commonwealth’s Right-to-Know : No components in this product is subject to the Massachusetts Right-to-Know .

New Jersey’s Worker and Community Right-to-Know : No components in this product is subject to the New Jersey Worker and Community Right-to-Know .

Pennsylvania’s Worker and Community Right-to-Know : No components in this product is subject to the Pennsylvania Worker and Community Right-to-Know .

CANADA : This product is regulated as a cosmetic under the Food and Drugs Act and complies with “ Health Canada ” regulations . All chemical components of this product are listed on DSL, NDSL, ICL or exempt .

WHMIS (Canada) : Class A

WHMIS Classification (Canada) : Hazard Symbol :

Skin & Eye Irritant	Flammable under Abnormal Conditions	Compressed air.
.....Under Abnormal Conditionsunder Abnormal Conditions..... under pressure



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EUROPE : EU Classification : Category 3 – Flammable Liquid & Vapor
 EU Risk Phrases : R10 Flammable
 EU Safety Phrases : Keep Out of Reach of Children ; S 46 – If swallowed, seek medical advice immediately; and show this container or label.

SECTION 16 : OTHER INFORMATION

HMIS Rating		GHS classification ratings order of severity differ from NFPA and HMIS	
HEALTH	1	HMIS/NFPA Hazard Ratings	GHS Hazard Categories
FLAMMABILITY	2	0= Minimal Hazard	Cat 1 - Severe Hazard
PHYSICAL HAZARD	1	1= Slight Hazard	Cat 2 - Serious Hazard
PERSONAL PROTECTION	B	2= Moderate Hazard	Cat 3 - Moderate Hazard
		3= Serious Hazard	Cat 4 - Slight Hazard
		4= Severe Hazard	Cat 5 - Minimal Hazard

DISCLAIMER : This document is intended to provide a brief summary of our present knowledge and guidance regarding the use of this material . The information set forth herein has been compiled from sources to be dependable and is believed to be accurate as of the date of issuance . This information is offered in good faith by HEALTHY CLEAN BUILDINGS and no warranty, expressed or implied, is made . The user assumes all liability for any damage or injury resulting from misuse, from any failure to adhere to recommended practices according to product label (and such), or from any hazards inherent in the nature of the product . This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contracted relationship.

Footnotes : CALC-Calculated; COR-Corrosive; CS-Cancer Suspect Agent; EST-Estimated; HMIS-Hazardous Material Identification System; NA-Not Applicable; ND-No Data ; NE – Data Not Established; OX- Oxidizer; PEL-Permissible Exposure Limit; PPI-Personal Protection Index ; STEL-Short Time Exposure Limit; TLV-Threshold Limit Value; TS-Trade Secret ; TWA-Time Weighted Average