



**KARLIN FOODS  
CORP**  
*Always Something Cookin'.*

## SAFETY DATA SHEET

### Section 1, Identification

<i>Product:</i>	Karlin Foods Baking Soda, KF ID# S24BS
<i>Manufacturer:</i>	Karlin Foods Corp 1845 Oak St. Suite 19 Northfield, IL 60093
<i>Emergency Phone Number:</i>	Karlin Foods: 847-441-8330 Chemtrec: 800-424-9300
<i>Recommended Use:</i>	Leavening agent, cleaner ingredient, bath salt ingredient, water softener, diaper rinse ingredient, direct food additive
<i>Restrictions on Use:</i>	None

### Section 2, Hazard(s) Identification

<i>Classification:</i>	OSHA Regulatory Status. This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
<i>Required Label:</i>	The product contains no substances which at their given concentration, are considered to be hazardous to health
<i>Other Information:</i>	Product dust may cause mechanical eye irritation.

### Section 3, Composition/Information on Ingredients

<i>Formula:</i>	NaHCO <sub>3</sub>
<i>Chemical Name:</i>	Sodium Bicarbonate

### Section 4, First Aid Measures

<i>Eye Contact:</i>	Flush eyes with water as a precaution. Get Medical attention if irritation develops and persists.
<i>Skin Contact:</i>	Wash skin with soap and water. Get medical attention if irritation develops and persists.
<i>Inhalation:</i>	Remove person to fresh air. If signs/symptoms continue, get medical attention.
<i>Ingestions:</i>	Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur
<i>Most important symptoms and effects, both acute and delayed:</i>	None known.
<i>Indication of immediate medical attention and special treatment needed, if necessary</i>	Treat symptomatically.

### Section 5, Fire-Fighting Measures

<i>Suitable Extinguishing Media:</i>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
<i>Specific Hazards Arising from the Chemical:</i>	None in particular. Not flammable
<i>Hazardous Combustion Products:</i>	None
<i>Explosion data</i>	

<i>Sensitivity to Mechanical Impact:</i>	Not sensitive
<i>Sensitivity to Static Discharge:</i>	Not sensitive
<i>Protective equipment and precautions for firefighters</i>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
<b>Section 6, Accidental Release Measures</b>	
<i>Personal Precautions:</i>	Avoid dust formation.
<i>Other:</i>	For further clean-up instructions, call Emergency Hotline number listed in Section 1 “Product and Company Identification” above.
<i>Environmental Precautions:</i>	Prevent material from entering into soil, ditches, sewers, waterways, and/or groundwater. See Section 12, Ecological Information for more detailed information.
<i>Methods for Containment:</i>	Vacuum or shovel waste into a drum and label contents for disposal.
<i>Methods for cleaning up:</i>	Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal. Dispose of waste as indications in Section 13.
<b>Section 7, Handling and Storage</b>	
<i>Handling:</i>	Use air conveying/mechanical systems for bulk transfer to storage. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected.
<i>Storage:</i>	Keep in a dry place. Keep away from incompatible products (acids). Do not store with strong smelling materials.
<i>Incompatible Products:</i>	Except under controlled conditions: Acids
<b>Sections 8, Exposure Controls/Personal Protection</b>	
<i>Control Parameters:</i>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Local nuisance dust standards apply.
<i>Appropriate Engineering Controls:</i>	Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
<i>Individual protection measures, such as personal protective equipment.</i>	
<i>Eye/Face Protection:</i>	Safety glasses with side shields
<i>Skin and Body Protection:</i>	Wear suitable protective clothing. Protective shoes or boots.
<i>Hand Protection:</i>	Protective gloves.
<i>Respiratory Protection:</i>	In case of inadequate ventilation, wear respiratory protection.
<i>Hygiene Measures:</i>	Handle in accordance with good industrial hygiene and safety practice.

<i>General Information:</i>	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.
<b>Section 9, Physical and Chemical Properties</b>	
<i>Appearance:</i>	Crystalline, Powder
<i>Physical State:</i>	Solid
<i>Color:</i>	White
<i>Odor:</i>	Odorless
<i>Odor Threshold:</i>	Not applicable
<i>pH:</i>	8.3 (1% solution) @ 25 degrees Celsius
<i>Melting Point/freezing point:</i>	Not applicable
<i>Boiling Point/Range:</i>	No information available
<i>Flash point:</i>	Not applicable
<i>Evaporation Rate:</i>	No information available
<i>Flammability (solid, gas):</i>	No information available
<i>Flammability Limit in Air:</i>	No information available
<i>Vapor pressure:</i>	Negligible
<i>Vapor density:</i>	No information available
<i>Density:</i>	No information available
<i>Specific gravity:</i>	2.22
<i>Water solubility:</i>	96g/L @ 20 degrees Celsius
<i>Solubility in other solvents:</i>	No information available
<i>Partition coefficient:</i>	Not applicable
<i>Autoignition temperature:</i>	No information available
<i>Decomposition temperature:</i>	No information available
<i>Viscosity, kinematic:</i>	No information available
<i>Viscosity, dynamic:</i>	No information available
<i>Explosive properties:</i>	No information available
<i>Oxidizing properties:</i>	Non-oxidizing
<i>Molecular weight:</i>	84.01
<i>Bulk Density:</i>	66 lb/cu ft
<b>Section 10, Stability and Reactivity</b>	
<i>Reactivity:</i>	None under normal use conditions
<i>Chemical Stability:</i>	Stable
<i>Possibility of Hazardous Reactions:</i>	None under normal processing/
<i>Hazardous polymerization:</i>	Hazardous polymerization does not occur
<i>Conditions to avoid:</i>	Heat. Humid air. Avoid contact with acids except under controlled conditions. Keep away from strong odor.
<i>Incompatible materials:</i>	Except under controlled conditions: Acids.
<i>Hazardous Decomposition Products:</i>	Reacts with acids to release carbon dioxide gas and heat.
<b>Section 11, Toxicological Information</b>	
<i>LD50 Oral:</i>	>5,000 mg/kg (rat)
<i>LD50 Dermal:</i>	No information available
<i>LC50 Inhalation:</i>	>4.74 mg/L (rat) 4.5 hr
<i>Eye Contact:</i>	Non-irritating

<i>Skin Contact:</i>	Non-irritating			
<i>Sensitization:</i>	Non-sensitizing			
<i>Info on toxicological effects: Symptoms</i>	No information available.			
<i>Chronic Toxicity:</i>	No known effect			
<i>Mutagenicity:</i>	Not mutagenic			
<i>Carcinogenicity:</i>	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH)			
<i>Reproductive toxicity:</i>	No information available			
<i>STOT – single exposure:</i>	No information available			
<i>STOT – repeated exposure:</i>	No information available			
<i>Aspiration hazard:</i>	No information available			
<b>Section 12, Ecological Information</b>				
<b><u>Ecotoxicity</u></b>				
<b>Sodium Bicarbonate (144-55-8)</b>				
Active Ingredient(s)	Duration	Species	Value	Units
Sodium bicarbonate	96 hr.	<i>Lepomis macrochirus</i> (Bluefill sunfish)	NOEC: 5,200 LC50: 7,100	mg/L
Sodium bicarbonate	48 hr. immobilization test	<i>Daphnia magna</i>	NOEC: 3,100 EC50: 4,100	mg/L
Sodium bicarbonate	96 hr.	<i>Oncorhynchus mykiss</i> (rainbow trout)	NOEC: 2,300 LC50: 7,700	mg/L
<i>Persistence and degradability:</i>	Biodegradability does not pertain to inorganic substances.			
<i>Bioaccumulation:</i>	Does not bio-accumulate			
<i>Mobility:</i>	Dissociates into ions.			
<i>Other Adverse Effects:</i>	None known.			
<b>Section 13, Disposal Considerations</b>				
<i>Waste disposal methods:</i>	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Dispose of in accordance with local regulations.			
<i>Contaminated Packaging:</i>	Dispose of in accordance with local regulations			
<b>Section 14, Transport Information</b>				
<i>DOT</i>	Not Regulated			
<b>Section 15, Regulatory Information</b>				
<b><i>U.S. Federal Regulations</i></b>				
<i>SARA313</i>	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			
<i>SARA 311/312 Hazard Categories</i>				
<i>Acute health hazard</i>	No			
<i>Chronic health hazard</i>	No			
<i>Fire hazard</i>	No			
<i>Sudden release of pressure hazard</i>	No			
<i>Reactive Hazard</i>	No			

<i>Clean Water Act</i>	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)							
<i>CERCLA</i>	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.							
<i>California Proposition 65</i>	This product does not contain any Proposition 65 Chemicals							
<i>U.S. State Right-to-Know Regulations</i>	This product does not contain any substances regulated by state right-to-know regulations.							
<i>International Inventories</i>								
<b>Component</b>	<b>TSCA (United States)</b>	<b>DSL (Canada)</b>	<b>EINECS/ELI NCS (Europe)</b>	<b>ENCS (Japan)</b>	<b>China (IECSC)</b>	<b>KECL (Korea)</b>	<b>PICCS (Philippines)</b>	<b>AICS (Australia)</b>
Sodium Bicarbonate 144-55-8 ( 100 )	X	X	X	X	X	X	X	X
<b>Section 16, Other Information</b>								
<b>NFPA</b>	<b>Health Hazards</b> 0	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Special Hazards</b> -				
<b>HMIS</b>	<b>Health Hazards</b> 0	<b>Flammability</b> 0	<b>Physical hazard</b> 0	<b>Personal Protection</b> X				
<b>NFPA/HMIS Ratings Legend</b> Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0								
<b>Product Certifications</b> This product meets the chemical testing specifications defined in the USP and Food Chemicals Codex (FCC), 9th Edition and is manufactured under GMP and in compliance with FSMA. The MUL (maximum use level) for sodium bicarbonate is 100 mg/L under NSF/ANSI Standard 60.								

## SAFETY DATA SHEET

### Section 1, Identification

<i>Product:</i>	Karlin Foods Corn Starch, KF ID# S34
<i>Manufacturer:</i>	Karlin Foods Corp 1845 Oak St. Suite 19 Northfield, IL 60093
<i>Emergency Phone Number:</i>	Karlin Foods: 847-441-8330 Chemtrec: 800-424-9300
<i>Recommended Use:</i>	Leavening agent, cleaner ingredient, bath salt ingredient, water softener, diaper rinse ingredient, direct food additive
<i>Restrictions on Use:</i>	None

### Section 2, Hazard(s) Identification

<i>Classification:</i>	According with the version of the Globally Harmonized System of Classification and labeling adopted in the United States and Regulation 1272/2008/EC [CLP]: Not classified
<i>Required Label:</i>	The product contains no substances which at their given concentration, are considered to be hazardous to health
<i>Other Information:</i>	May form combustible dust concentrations in air. Possibility of dust explosion. it is recommended that all dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions. Do not allow dust to accumulate on flat surfaces, on rafters or building structural components. Keep away from all ignition sources including heat, sparks and flame.

### Section 3, Composition/Information on Ingredients

<i>CAS Number</i>	9005-25-8
<i>Chemical Name:</i>	Starch

### Section 4, First Aid Measures

<i>Eye Contact:</i>	Remove particulates by irrigating with eye wash solution or clean water, holding eyelids apart
<i>Skin Contact:</i>	Wash skin with soap and water. Get medical attention if irritation develops and persists.
<i>Inhalation:</i>	Remove person to fresh air. If signs/symptoms continue, get medical attention.
<i>Ingestions:</i>	Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur
<i>Most important symptoms and effects, both acute and delayed:</i>	None known.
<i>Indication of immediate medical</i>	Treat symptomatically.

<i>attention and special treatment needed, if necessary</i>	
<b>Section 5, Fire-Fighting Measures</b>	
<i>Suitable Extinguishing Media:</i>	Water spray, dry powder, carbon dioxide or media appropriate for surrounding fire. Use of water jet may cause explosive dust conditions.
<i>Specific Hazards Arising from the Chemical:</i>	Possibility of dust explosion. It is recommended that all dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions. Do not allow dust to accumulate on flat surfaces, on rafters or building structural components. Use of water jet may cause explosive dust conditions. SEE NFPA 61, Standard for the prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 or later Edition, and other related standards.
<i>Hazardous Combustion Products:</i>	Carbon dioxide and carbon monoxide
<i>Explosion data</i>	
<i>Sensitivity to Mechanical Impact:</i>	Not sensitive
<i>Sensitivity to Static Discharge:</i>	Not sensitive
<i>Protective equipment and precautions for firefighters</i>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
<b>Section 6, Accidental Release Measures</b>	
<i>Personal Precautions:</i>	None under normal conditions. Avoid prolonged inhalation of dust.
<i>Other:</i>	For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
<i>Environmental Precautions:</i>	Prevent further leakage or spillage if safe to do so. No special environmental precautions required.
<i>Methods for Containment:</i>	Vacuum or shovel waste into a drum and label contents for disposal.
<i>Methods for cleaning up:</i>	Vacuum or sweep spills. Minimize dust generation. If washing down spilled area is necessary, use copious amounts of water and control runoff. Follow local, state and federal regulations for product disposal
<b>Section 7, Handling and Storage</b>	
<i>Handling:</i>	See NFPA 61, Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 Edition, and other related standards. Use with adequate ventilation. Minimize dust generation and accumulation; dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are disturbed. All dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions and may require explosion relief vents or an

	<p>explosion suppression system or an oxygen-deficient environment. Bonding and grounding systems may be required.</p> <p>Dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) should be designed to limit or prevent leakage of dust into the work area.</p> <p>Do not allow dust to accumulate on flat surfaces, on rafters or building structural components.</p> <p>Routine housekeeping should be instituted to reduce dust accumulation. Use Avoid dispersal of dust in the air; use vacuum or wet sweeping methods. Do not use compressed air to clean surfaces.</p> <p>Keep away from all ignition sources including heat, sparks, and flame. Where dust accumulations occur use non-sparking tools.</p>
<i>Storage:</i>	<p>Store in a cool dry place. Store in a tightly closed container/bag.</p> <p>The packaging material should have reasonable moisture and air barriers and comply with food regulations.</p>
<i>Incompatible Products:</i>	<p>Except under controlled conditions: Acids</p>
<b>Sections 8, Exposure Controls/Personal Protection</b>	
<i>Control Parameters:</i>	<p>8.1 CONTROL PARAMETERS</p> <p>Exposure limits: Nuisance dust (also called particulate not otherwise regulated (PNOR)).</p> <p>OSHA PEL: 15 mg/ mg/m3 Total dust 5 mg/m3 Respirable dust</p> <p>ACGIH TLV: 10 mg/m3 Inhalable dust 5 mg/m3 Respirable dust 15 mg/m3 Total dust</p>
<i>Appropriate Engineering Controls:</i>	<p>Ventilation: See NFPA 61, Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 Edition, and National Fire Protection Association 650, Standard for Pneumatic Conveying Systems for Handling Combustible Materials, 1997 Edition and other related standards. Normal industrial hygiene measures should be sufficient for protection of employees from exposure to dusts. Local and mechanical exhaust is desirable when dumping bags.</p>
<i>Individual protection measures, such as personal protective equipment.</i>	
<i>Eye/Face Protection:</i>	<p>Safety glasses are recommended. Safety goggles are desirable when dumping bags.</p>
<i>Skin and Body Protection:</i>	<p>Wear suitable protective clothing. Protective shoes or boots.</p>
<i>Hand Protection:</i>	<p>Protective gloves.</p>
<i>Respiratory Protection:</i>	<p>In case of inadequate ventilation, wear respiratory protection.</p>
<i>Hygiene Measures:</i>	<p>Handle in accordance with good industrial hygiene and safety practice.</p>
<i>General Information:</i>	<p>If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.</p>



<b>Section 9, Physical and Chemical Properties</b>	
<i>Appearance:</i>	Crystalline, Powder
<i>Physical State:</i>	Powder
<i>Color:</i>	White to off-white
<i>Odor:</i>	Starch-like odor
<i>pH:</i>	Data on specification
<i>Melting Point/freezing point:</i>	Not applicable
<i>Boiling Point/Range:</i>	No information available
<i>Flash point:</i>	Not applicable
<i>Evaporation Rate:</i>	No information available
<i>Flammability (solid, gas):</i>	No information available
<i>Flammability Limit in Air:</i>	No information available
<i>Vapor pressure:</i>	Negligible
<i>Vapor density:</i>	No information available
<i>Density:</i>	No information available
<i>Specific gravity:</i>	No Data
<i>Water solubility:</i>	Data on specification
<i>Solubility in other solvents:</i>	No information available
<i>Partition coefficient:</i>	Not applicable
<i>Autoignition temperature:</i>	No information available
<i>Decomposition temperature:</i>	No information available
<i>Viscosity, kinematic:</i>	No information available
<i>Viscosity, dynamic:</i>	No information available
<i>Explosive properties:</i>	No information available
<i>Oxidizing properties:</i>	Non-oxidizing
<i>Molecular weight:</i>	No data
<i>Bulk Density:</i>	No data
<b>Section 10, Stability and Reactivity</b>	
<i>Reactivity:</i>	Stable
<i>Chemical Stability:</i>	Stable under normal conditions. Polymerization will not occur.
<i>Possibility of Hazardous Reactions:</i>	Not applicable.
<i>Hazardous polymerization:</i>	Hazardous polymerization does not occur
<i>Conditions to avoid:</i>	Practices which produce dust or disperse finely divided dust in air. See NFPA 61. Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 Edition, and other related standards.
<i>Incompatible materials:</i>	Oxidizing agents, strong acids

<i>Hazardous Decomposition Products:</i>	Nothing unusual
<b>Section 11, Toxicological Information</b>	
<i>Inhalation:</i>	Exposure to high airborne concentrations may cause mild respiratory irritation due to drying effects of dust.
<i>Ingestion:</i>	No effects known or anticipated.
<i>Skin irritation/corrosion:</i>	Sustained exposure in a dusty manufacturing environment may result in mechanical irritation in the creases of the skin, particularly at the fingers, or other drying effects. no health effects known or anticipated.
<i>Eye Irritation:</i>	May cause slight mechanical irritation from acute exposure.
<i>Skin sensitivity:</i>	Not sensitizing
<i>Chronic Toxicity:</i>	Not known or anticipated
<i>Genetic Toxicity:</i>	Not known or anticipated
<i>Carcinogenicity:</i>	Not classifiable as Carcinogen
<i>Reprotoxicity:</i>	Not known or anticipated
<i>Specific effects:</i>	Not applicable
<b>Section 12, Ecological Information</b>	
<i>Toxicity:</i>	Starch and its breakdown products are not known to be toxic to plant and animal life.
<i>Persistence and degradability:</i>	Readily biodegradable
<i>Bioaccumulation:</i>	Starch and its breakdown products are not fat-soluble, and do not accumulate in plant or animal tissue.
<i>Mobility:</i>	Not applicable
<i>Other Adverse Effects:</i>	None known.
<b>Section 13, Disposal Considerations</b>	
<i>Waste disposal methods:</i>	Follow local, state and federal regulations for product disposal. Not a hazardous waste unless contaminated with hazardous products.
<b>Section 14, Transport Information</b>	
<i>DOT shipping label</i>	Non-hazardous
<b>Section 15, Regulatory Information</b>	
<i>U.S. Federal Regulations</i>	
<i>Safety, Health and Environmental Regulations:</i>	According with the version of the Globally Harmonized System of Classification and labeling adopted in the United States and Regulation 1272/2008/EC(CLP): Not classified
<i>Clean Air Act:</i>	
<i>ODS:</i>	Not applicable
<i>TSCA:</i>	Not applicable
<i>SARA (EPCRA) Section 313 (40 C.F.R. 372.65)</i>	Not applicable
<i>California Proposition 65</i>	Not applicable
<b>Section 16, Other Information</b>	

See Hazard Communication Guidance of Combustible Dusts, OSHA 3371-08 2009, U.S. Occupational

**Citric Acid Anhydrous**

Version	Revision Date:	SDS Number:	Date of last issue: 06/16/2017
1.1	06/22/2017	100000000123	Date of first issue: 06/16/2017
US / EN			

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**SECTION 1. IDENTIFICATION**

Product name : Citric Acid Anhydrous

Substance name : Citric Acid Anhydrous

Molecular formula : C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>

Chemical identity : 2-hydroxypropane-1,2,3-tricarboxylic acid

CAS-No. : 77-92-9

Chemical nature : Solid

**Manufacturer or supplier's details****Details of the supplier of the safety data sheet**

Company : Jungbunzlauer Inc.  
7 Wells Avenue  
Newton Centre, Massachusetts 02459  
USA  
www.jungbunzlauer.com

Telephone : +1 617 969-0900

Telefax : +1 617 964-2921

E-mail address Responsible/issuing person : msds@jungbunzlauer.com

**Emergency telephone number**

Emergency telephone number : National Chemical Emergency Centre  
(NCEC)  
+1 202 464 2554

**Recommended use of the chemical and restrictions on use**

Recommended use : Food/ feedstuff additives  
Cosmetic additive  
Medical aids  
Industrial use

Restrictions on use : None known.

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200**

Eye irritation : Category 2A

**GHS label elements**

## Citric Acid Anhydrous

Version 1.1      Revision Date: 06/22/2017      SDS Number: 100000000123      Date of last issue: 06/16/2017  
US / EN      Date of first issue: 06/16/2017

Hazard pictograms

:



Signal word

:

Warning

Hazard statements

:

H319 Causes serious eye irritation.

Precautionary statements

:

**Prevention:**

P264 Wash hands thoroughly after handling.

**P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.****Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337 + P313 If eye irritation persists: Get medical advice/ attention.****Hazards Not Otherwise Classified**

May form combustible dust concentrations in air (during processing).

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture

:

Pure substance

Substance name

:

Citric Acid Anhydrous

CAS-No.

:

77-92-9

Chemical nature

:

Solid

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Citric acid anhydrous	77-92-9	100

**SECTION 4. FIRST AID MEASURES**

General advice

:

Avoid inhalation, ingestion and contact with skin and eyes. Consult a physician.

If inhaled

:

If breathed in, move person into fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

**Citric Acid Anhydrous**

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- If breathing is difficult, give oxygen.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.
- In case of eye contact : If easy to do, remove contact lens, if worn. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
- If swallowed : Drink plenty of water. If swallowed, DO NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : Eye irritation may cause mild and mechanical irritation and thus symptoms which would be redness and pain. Causes serious eye irritation.
- Notes to physician : Treat symptomatically.
- 

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Dry powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products formed under fire conditions.
- Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide
- Specific extinguishing methods : Standard procedure for chemical fires.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear fire resistant or flame retardant clothing.
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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency measures : Avoid dust formation. Dust deposits should not be allowed to accumulate on surfaces.

**Citric Acid Anhydrous**

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- agency procedures : es, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.  
Avoid breathing dust.  
Ensure adequate ventilation, especially in confined areas.  
Wear personal protective equipment.  
Avoid contact with skin and eyes.  
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : No special environmental precautions required.  
Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Use mechanical handling equipment.  
Keep in suitable, closed containers for disposal.  
Clean contaminated surface thoroughly.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Risk of dust explosion.  
Do not breathe dust.  
Avoid contact with skin and eyes.  
Wear personal protective equipment.  
For personal protection see section 8.
- Conditions for safe storage : Keep in an area equipped with acid resistant flooring.  
Keep container tightly closed in a dry and well-ventilated place.  
Minimize dust generation and accumulation.  
Take measures to prevent the build up of electrostatic charge.
- Materials to avoid : Incompatible with strong bases and oxidizing agents.
- 

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

- Engineering measures** : Provide adequate ventilation.  
Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

**Personal protective equipment**

- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.  
Use NIOSH approved respiratory protection.

Hand protection

## Citric Acid Anhydrous

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- |                          |  |
|--------------------------|--|
| Remarks                  | : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.<br>For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. |
| Eye protection           | : Safety glasses<br>Ensure that eyewash stations and safety showers are close to the workstation location.   |
| Skin and body protection | : Choose body protection according to the amount and concentration of the dangerous substance at the work place.   |
| Hygiene measures         | : Handle in accordance with good industrial hygiene and safety practice.<br>Wash hands before breaks and immediately after handling the product.<br>Remove contaminated clothing and protective equipment before entering eating areas.  |
- 

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- |                             |                                     |
|-----------------------------|-------------------------------------|
| Appearance                  | : crystalline                       |
| Colour                      | : white                             |
| Odour                       | : odourless                         |
| Odour Threshold             | : Not relevant                      |
| pH                          | : 1.8 (77 °F)<br>Concentration: 5 % |
| Melting point/range         | : ca. 307 °F                        |
| Boiling point/boiling range | : Not applicable                    |
| Flash point                 | : Not applicable                    |
| Evaporation rate            | : Not applicable                    |
| Flammability (solid, gas)   | : does not ignite                   |
| Upper explosion limit       | : No data available                 |
| Lower explosion limit       | : No data available                 |
| Vapour pressure             | : Not applicable                    |
| Relative vapour density     | : Not applicable                    |
| Relative density            | : No data available                 |



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Density	:	1.665 g/cm <sup>3</sup> (68 °F)
Solubility(ies)		
Water solubility	:	ca. 1,450 g/l (68 °F)
Partition coefficient: n-octanol/water	:	log Pow: -1.8 - -0.2 Calculation
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	No oxidising effect.
Molecular weight	:	192.12 g/mol
Dust explosion class	:	St1

---

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Avoid dust formation.
Incompatible materials	:	Strong bases Oxidizing agents
Hazardous decomposition products	:	Build-up of dangerous/toxic fumes possible in cases of fire/high temperature. Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Components:****Citric acid anhydrous:**

Acute oral toxicity	:	LD50 Oral (Mouse): 5.400 mg/kg body weight
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Method: OECD Test Guideline 401

LD50 Oral (Rat): 11.700 mg/kg body weight  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal (Rat): &gt; 2.000 mg/kg body weight

Acute toxicity (other routes of administration) : LD50 (Rat): 725 mg/kg  
Application Route: i.p.LD50 (Mouse): 940 mg/kg  
Application Route: i.p.**Skin corrosion/irritation****Components:****Citric acid anhydrous:**Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation  
May cause skin irritation in susceptible persons.**Serious eye damage/eye irritation****Components:****Citric acid anhydrous:**Species: Rabbit  
Result: Irritating to eyes.  
Method: OECD Test Guideline 405**Respiratory or skin sensitisation****Components:****Citric acid anhydrous:**

No data available

**Germ cell mutagenicity****Components:****Citric acid anhydrous:**Genotoxicity in vitro : Test Type: Ames test  
Species: Salmonella typhimurium  
Concentration: 0 - 5 mg/plate  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negativeGenotoxicity in vivo : Test Type: in vivo assay  
Species: Rat  
Application Route: Oral

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Method: OECD Test Guideline 475

Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

**Carcinogenicity****Components:****Citric acid anhydrous:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**Reproductive toxicity****Components:****Citric acid anhydrous:**

Reproductive toxicity - Assessment : No toxicity to reproduction

**STOT - single exposure****Components:****Citric acid anhydrous:**

No data available

**STOT - repeated exposure****Components:****Citric acid anhydrous:**

No data available

**Repeated dose toxicity****Components:****Citric acid anhydrous:**

Species: Rat  
NOAEL: 4,000 mg/kg  
LOAEL: 8,000 mg/kg  
Application Route: Oral  
Exposure time: 10 d  
Dose: 2, 4, 8, 16 g/kg bw/day

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**Aspiration toxicity****Components:****Citric acid anhydrous:**

No aspiration toxicity classification

**Experience with human exposure****Product:**

Inhalation	:	Target Organs: Respiratory system Symptoms: No information available.
Skin contact	:	Target Organs: Skin Symptoms: May cause skin irritation in susceptible persons.
Eye contact	:	Target Organs: Eyes Symptoms: Redness, Itching
Ingestion	:	Target Organs: Digestive organs Symptoms: No information available.

---

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Citric acid anhydrous:**

Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): 440 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 1,535 mg/l Exposure time: 24 h Test Type: static test
Toxicity to algae	:	NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l Exposure time: 8 d Test Type: static test
Toxicity to microorganisms	:	TT (Pseudomonas putida): > 10,000 mg/l Exposure time: 16 h

**Persistence and degradability****Components:****Citric acid anhydrous:**

Biodegradability	:	Biodegradation: 97 % Testing period: 28 d Method: OECD Test Guideline 301B Readily biodegradable.
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Biodegradation: 100 %  
Testing period: 19 d  
Method: OECD Test Guideline 301E  
Readily biodegradable.

Biochemical Oxygen Demand (BOD) : 526 mg/g

Chemical Oxygen Demand (COD) : 728 mg/g

Physico-chemical removability : Readily biodegradable.

**Bioaccumulative potential****Product:**

Partition coefficient: n-octanol/water : log Pow: -1.8 - -0.2  
Calculation

**Components:****Citric acid anhydrous:**

Bioaccumulation : The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

**Mobility in soil**

No data available

**Other adverse effects****Components:****Citric acid anhydrous:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information : This product has no known ecotoxicological effects.

---

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Where possible recycling is preferred to disposal or incineration.  
Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Dispose of as unused product.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****DOT**

Not regulated as a hazardous material

---

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act**

**SARA 311/312 Hazards** : Acute Health Hazard  
Fire Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : 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.

**Clean Water Act**

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**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.

**The components of this product are reported in the following inventories:**

EINECS : On the inventory, or in compliance with the inventory

TSCA : On TSCA Inventory

TSCA\_12b : Not applicable

DSL : All components of this product are on the Canadian DSL

REACH : On the inventory, or in compliance with the inventory

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**SECTION 16. OTHER INFORMATION**

## Citric Acid Anhydrous

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**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 06/22/2017

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.

## Section 1 Chemical Product and Company Identification

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**HOME SCIENCE TOOLS**

665 Carbon Street  
Billings, MT 59102  
800-860-6272  
www.homesciencetools.com

**CHEMTREC 24 Hour Emergency USA**  
**Phone Number (800) 424-9300**  
**1 703-741-5500 (from anywhere in the world).**  
For laboratory and industrial use only.  
Not for drug, food or household use.

<b>Product</b>	<b>MAGNESIUM SULFATE, HEPTAHYDRATE</b>
----------------	--

<b>Synonyms</b>	Epsom Salts
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## Section 2 Hazards Identification

**This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.**

**Signal word:** None

**Pictograms:** No symbol required

**Target organs:** None known

**GHS Classification:** Not classified

**GHS Label information: Hazard statement:** Not classified

**Precautionary statement:** Not classified

**Supplementary information:**

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
Magnesium sulfate	10034-99-8	100%	231-298-2 (anhydrous)

## Section 4 First Aid Measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Use any media suitable for extinguishing supporting fire.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## Section 6 Accidental Release Measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.



**Section 7 Handling & Storage**

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**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances.

**Section 8 Exposure Controls / Personal Protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Magnesium sulfate	None established	None established	None established

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical & Chemical Properties**

<b>Appearance:</b> Solid, White crystalline powder <b>Odor:</b> No odor. <b>Odor threshold:</b> Data not available. <b>pH:</b> Data not available. <b>Melting / Freezing point:</b> Data not available <b>Boiling point:</b> Data not available <b>Flash point:</b> Data not available	<b>Evaporation rate ( = 1):</b> Data not available <b>Flammability (solid/gas):</b> Data not available. <b>Explosion limits: Lower / Upper:</b> Data not available <b>Vapor pressure (mm Hg):</b> Data not available <b>Vapor density (Air = 1):</b> Data not available <b>Relative density (Specific gravity):</b> 2.7 <b>Solubility(ies):</b> Appreciable in water.	<b>Partition coefficient:</b> Data not available <b>Auto-ignition temperature:</b> Data not available <b>Decomposition temperature:</b> Data not available <b>Viscosity:</b> Data not available. <b>Molecular formula:</b> MgSO <sub>4</sub> ·7H <sub>2</sub> O <b>Molecular weight:</b> 246.48
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**Section 10 Stability & Reactivity**

**Chemical stability:** Stable **Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures and heat. Protect from moisture.

**Incompatible materials:** None known.

**Hazardous decomposition products:** Sulfur oxides.

**Section 11 Toxicological Information**

**Acute toxicity:** Data not available

**Skin corrosion/irritation:** Data not available

**Serious eye damage/irritation:** Data not available

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

NTP: 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: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

Inhalation: May cause respiratory irritation.

Ingestion: Ingestion may cause nausea, vomiting and diarrhea.

Skin: Contact with skin may cause irritation.

Eyes: Contact with eyes may cause irritation.

**Signs and symptoms of exposure:** To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

**Additional information: RTECS #:** Data not available

**Section 12 Ecological Information**

**Toxicity to fish:** Gambusia affinis (fish, fresh water), LC50: 15,500 mg/L/24 hours

**Toxicity to daphnia and other aquatic invertebrates:** Daphnia magna (Crustacea), EC50: 1,700 mg/L/24 hours

**Toxicity to algae:** Scenedesmus subspicatus (Algae), EC50: 2,700 mg/L/ 72 hours

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal Considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport Information (US DOT / CANADA TDG)**

**UN/NA number:** Not applicable

**Shipping name:** Not Regulated

**Hazard class:** Not applicable

**Packing group:** Not applicable

**Reportable Quantity:** No

**Marine pollutant:** No

**Exceptions:** Not applicable

**2016 ERG Guide #** Not applicable

**Section 15 Regulatory Information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Magnesium sulfate	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Section 16 Other Information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.



#### **Material safety data sheet**

Gel Spice Company, Inc.  
48 Hook Road  
Bayonne, NJ, 07002  
Tel: 201-339-0700

## **Blue Food Color**

### **Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26,  
2012 / Rules and Regulations  
02/17/2016 EN (English US) Page 1

#### **1.1. Identification**

Product form : Mixture  
Product name : Blue Food Color  
Product code : S9123

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

No additional information available

#### **1.3. Details of the supplier of the safety data sheet**

Shank's Extracts, Inc.  
350 Richardson Drive  
Lancaster, PA 17603  
T 717-393-4441 - F 717-393-3148  
[www.shanks.com](http://www.shanks.com)

#### **1.4. Emergency telephone number**

Emergency number : CHEMTREC: 1-800-424-9300

#### **2.1. Classification of the substance or mixture**

##### **Classification (GHS-US)**

Skin corrosion/irritation  
Category 2  
H315

Full text of H statements : see section 16

#### **2.2. Label elements**

##### **GHS-US labeling**

Hazard pictograms (GHS-US) :  
GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation

Precautionary statements (GHS-US) : P264 - Wash hands and any affected areas thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+P352 - If on skin: Wash with plenty of a doctor, a POISON CENTER

P321 - Specific treatment see doctor if affected

P332+P313 - If skin irritation occurs: Get medical advice/attention

P362+P364 - Take off contaminated clothing and wash it before reuse

#### **2.3. Other hazards**

No additional information available

#### **2.4. Unknown acute toxicity (GHS US)**

Not applicable

#### **3.1. Substance**

Not applicable

#### **3.2. Mixture**

## **Blue Food Color**

### **Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26,  
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#### **Name Product identifier % Classification (GHS-US)**

trade name component\* (CAS No) Trade Secret 11.626284704  
4598

Skin Irrit. 2, H315

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-phrases: see section 16

#### **4.1. Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow victim to breathe fresh

air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist. Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center/doctor/physician if you feel unwell.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact : Irritation.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

#### **5.1. Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### **5.2. Special hazards arising from the substance or mixture**

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do

not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## Blue Food Color

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
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#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Avoid contact with skin and eyes.

Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : acids and bases. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### 8.1. Control parameters

##### trade name component

OSHA OSHA PEL (TWA) (mg/m<sup>3</sup>) 15 mg/m<sup>3</sup> (mist, total particulate)

5 mg/m<sup>3</sup> (mist, respirable fraction)

#### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves/protective clothing/eye protection/face protection. protective gloves.

Eye protection : Chemical goggles or safety glasses. Safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear appropriate mask.

Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use.

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : dark blue

Odor : characteristic

Odor threshold : No data available

pH : No data available

Melting point : Not applicable

Freezing point : No data available

Boiling point : No data available

Flash point : > 100 °C

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : No data available

Explosion limits : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Vapor pressure : No data available

Relative density : 1.035 - 1.25

Relative vapor density at 20 °C : No data available

Solubility : Water: Solubility in water of component(s) of the mixture :

• : 576 g/l (at 20 °C) • : 630 g/l (at 20 °C)

Log Pow : No data available

## Blue Food Color

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Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

#### 9.2. Other information

No additional information available

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

##### trade name component

LD50 oral rat 12600 mg/kg

LD50 dermal rabbit > 10 g/kg

LC50 inhalation rat (mg/l) > 570 mg/m<sup>3</sup> (Exposure time: 1 h)

ATE US (oral) 12600.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure)

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms

: Based on available data, the classification criteria are not met.

Symptoms/injuries after skin contact : Irritation.

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

##### trade name component

LC50 fish 1 51 - 57 ml/l (Exposure time: 96 h - Species:

Oncorhynchus mykiss [static])

## Blue Food Color

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#### 12.2. Persistence and degradability

##### Blue Food Color

Persistence and degradability Not established.

#### 12.3. Bioaccumulative potential

##### Blue Food Color

Bioaccumulative potential Not established.

##### trade name component

BCF fish 1 (no bioaccumulation)

Log Pow -1.76

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

#### Department of Transportation (DOT)

In accordance with DOT  
Not regulated for transport

##### TDG

No additional information available

##### Transport by sea

No additional information available

##### Air transport

No additional information available

#### 15.1. US Federal regulations

##### trade name component

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule

#### 15.2. International regulations

##### CANADA

##### trade name component

Listed on the Canadian DSL (Domestic Substances List) WHMIS Classification Uncontrolled product according to WHMIS classification criteria

##### EU-Regulations

##### trade name component

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

##### National regulations

## Blue Food Color

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#### **Material safety data sheet**

Gel Spice Company, Inc.  
48 Hook Road  
Bayonne, NJ, 07002  
Tel: 201-339-0700

## **Green Food Color (SENSITIZER-Y5)**

### **Safety Data Sheet**

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#### **1.1. Identification**

Product form : Mixture  
Product name : Green Food Color (SENSITIZER-Y5)  
Product code : S90109

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

No additional information available

#### **1.3. Details of the supplier of the safety data sheet**

Shank's Extracts, Inc.  
350 Richardson Drive  
Lancaster, PA 17603  
T 717-393-4441 - F 717-393-3148  
[www.shanks.com](http://www.shanks.com)

#### **1.4. Emergency telephone number**

Emergency number : CHEMTREC: 1-800-424-9300

#### **2.1. Classification of the substance or mixture Classification (GHS-US)**

Skin corrosion/irritation

Category 2

H315

Full text of H statements : see section 16

#### **2.2. Label elements**

##### **GHS-US labeling**

Hazard pictograms (GHS-US) :

GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation

Precautionary statements (GHS-US) : P264 - Wash hands  
and any affected areas thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye  
protection/face protection

P302+P352 - If on skin: Wash with plenty of a doctor, a  
POISON CENTER

P321 - Specific treatment see doctor if affected

P332+P313 - If skin irritation occurs: Get medical  
advice/attention

P362+P364 - Take off contaminated clothing and wash it  
before reuse

#### **2.3. Other hazards**

No additional information available

#### **2.4. Unknown acute toxicity (GHS US)**

Not applicable

#### **3.1. Substance**

Not applicable

#### **3.2. Mixture**

## **Green Food Color (SENSITIZER-Y5)**

### **Safety Data Sheet**

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#### **Name Product identifier % Classification (GHS-US)**

trade name component\* (CAS No) Trade Secret 15.699457819  
7336

Skin Irrit. 2, H315

\*Chemical name, CAS number and/or exact concentration have  
been withheld as a trade secret

Full text of H-phrases: see section 16

#### **4.1. Description of first aid measures**

First-aid measures after inhalation : Remove person to fresh  
air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty  
of water. Take off contaminated clothing. If skin irritation  
occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water  
as a precaution.

First-aid measures after ingestion : Call a poison  
center/doctor/physician if you feel unwell.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/injuries after skin contact : Irritation.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

#### **5.1. Extinguishing media**

Suitable extinguishing media : Water spray. Dry powder.  
Foam. Carbon dioxide.

#### **5.2. Special hazards arising from the substance or mixture**

Reactivity : The product is non-reactive under normal  
conditions of use, storage and transport.

#### **5.3. Advice for firefighters**

Protection during firefighting : Do not attempt to take action  
without suitable protective equipment. Self-contained  
breathing  
apparatus. Complete protective clothing.

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **6.1.1. For non-emergency personnel**



Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

#### 8.1. Control parameters

## Green Food Color (SENSITIZER-Y5)

### Safety Data Sheet

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#### trade name component

OSHA OSHA PEL (TWA) (mg/m<sup>3</sup>) 15 mg/m<sup>3</sup> (mist, total particulate)  
5 mg/m<sup>3</sup> (mist, respirable fraction)

#### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Protective gloves.

Eye protection : Safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls : Avoid release to the environment.

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Green

Odor : Bland

Odor threshold : No data available

pH : No data available

Melting point : Not applicable

Freezing point : No data available

Boiling point : No data available

Flash point : > 100 °C

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : No data available

Explosion limits : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Vapor pressure : No data available

Relative density : 1.0593

Relative vapor density at 20 °C : No data available

Solubility : Water: Solubility in water of component(s) of the mixture :

• : 576 g/l (at 20 °C) • : 630 g/l (at 20 °C)

Log Pow : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

#### 9.2. Other information

No additional information available

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

## Green Food Color (SENSITIZER-Y5)

### Safety Data Sheet

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#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### trade name component

LD50 oral rat 12600 mg/kg

LD50 dermal rabbit > 10 g/kg

LC50 inhalation rat (mg/l) > 570 mg/m<sup>3</sup> (Exposure time: 1 h)

ATE US (oral) 12600.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure)

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after skin contact : Irritation.

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

**trade name component**

LC50 fish 1 51 - 57 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential****trade name component**

BCF fish 1 (no bioaccumulation)

Log Pow -1.76

**12.4. Mobility in soil**

No additional information available

**12.5. Other adverse effects**

Effect on the global warming : No known ecological damage caused by this product.

**13.1. Waste treatment methods**

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## Green Food Color (SENSITIZER-Y5)

### Safety Data Sheet

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**Department of Transportation (DOT)**

In accordance with DOT

Not regulated for transport

**TDG**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

**15.1. US Federal regulations****trade name component**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule

**15.2. International regulations****CANADA****trade name component**

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Uncontrolled product according to

WHMIS classification criteria

**EU-Regulations****trade name component**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**National regulations****trade name component**

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

**15.3. US State regulations****trade name component**

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

Full text of H-phrases:

H315 Causes skin irritation

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*



#### **Material safety data sheet**

Gel Spice Company, Inc.  
48 Hook Road  
Bayonne, NJ, 07002  
Tel: 201-339-0700

## **Red Food Color**

### **Safety Data Sheet**

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#### **1.1. Identification**

Product form : Mixture  
Product name : Red Food Color  
Product code : S9119

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

No additional information available

#### **1.3. Details of the supplier of the safety data sheet**

Shank's Extracts, Inc.  
350 Richardson Drive  
Lancaster, PA 17603  
T 717-393-4441 - F 717-393-3148  
[www.shanks.com](http://www.shanks.com)

#### **1.4. Emergency telephone number**

Emergency number : CHEMTREC: 1-800-424-9300

#### **2.1. Classification of the substance or mixture**

##### **Classification (GHS-US)**

Skin corrosion/irritation  
Category 2  
H315

Full text of H statements : see section 16

#### **2.2. Label elements**

##### **GHS-US labeling**

Hazard pictograms (GHS-US) :  
GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation

Precautionary statements (GHS-US) : P264 - Wash hands and any affected areas thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+P352 - If on skin: Wash with plenty of a doctor, a POISON CENTER

P321 - Specific treatment see doctor if affected

P332+P313 - If skin irritation occurs: Get medical advice/attention

P362+P364 - Take off contaminated clothing and wash it before reuse

#### **2.3. Other hazards**

No additional information available

#### **2.4. Unknown acute toxicity (GHS US)**

Not applicable

#### **3.1. Substance**

Not applicable

#### **3.2. Mixture**

## **Red Food Color**

### **Safety Data Sheet**

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#### **Name Product identifier % Classification (GHS-US)**

trade name component\* (CAS No) Trade Secret 15.141151453  
3923

Skin Irrit. 2, H315

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-phrases: see section 16

#### **4.1. Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow victim to breathe fresh

air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist. Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center/doctor/physician if you feel unwell.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact : Irritation.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

#### **5.1. Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### **5.2. Special hazards arising from the substance or mixture**



Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do

not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## Red Food Color

### Safety Data Sheet

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#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Avoid contact with skin and eyes.

Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : acids and bases. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### 8.1. Control parameters

##### trade name component

OSHA OSHA PEL (TWA) (mg/m<sup>3</sup>) 15 mg/m<sup>3</sup> (mist, total particulate)

5 mg/m<sup>3</sup> (mist, respirable fraction)

#### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves/protective clothing/eye protection/face protection. protective gloves.

Eye protection : Chemical goggles or safety glasses. Safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear appropriate mask.

Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use.

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : red

Odor : characteristic

Odor threshold : No data available

pH : No data available

Melting point : Not applicable

Freezing point : No data available

Boiling point : No data available

Flash point : > 100 °C

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : No data available

Explosion limits : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Vapor pressure : No data available

Relative density : 1.06 - 1.07

Relative vapor density at 20 °C : No data available

Solubility : Water: Solubility in water of component(s) of the mixture :

• : 576 g/l (at 20 °C) • : 630 g/l (at 20 °C)

Log Pow : No data available

## Red Food Color

### Safety Data Sheet

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Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

#### 9.2. Other information

No additional information available

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

##### trade name component

LD50 oral rat 12600 mg/kg

LD50 dermal rabbit > 10 g/kg

LC50 inhalation rat (mg/l) > 570 mg/m<sup>3</sup> (Exposure time: 1 h)

ATE US (oral) 12600.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure)

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms

: Based on available data, the classification criteria are not met.

Symptoms/injuries after skin contact : Irritation.

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

##### trade name component

LC50 fish 1 51 - 57 ml/l (Exposure time: 96 h - Species:

Oncorhynchus mykiss [static])

## Red Food Color

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#### 12.2. Persistence and degradability

##### Red Food Color

Persistence and degradability Not established.

#### 12.3. Bioaccumulative potential

##### Red Food Color

Bioaccumulative potential Not established.

##### trade name component

BCF fish 1 (no bioaccumulation)

Log Pow -1.76

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

#### Department of Transportation (DOT)

In accordance with DOT  
Not regulated for transport

#### TDG

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

#### 15.1. US Federal regulations

##### trade name component

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule

#### 15.2. International regulations

##### CANADA

##### trade name component

Listed on the Canadian DSL (Domestic Substances List) WHMIS Classification Uncontrolled product according to WHMIS classification criteria

##### EU-Regulations

##### trade name component

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

##### National regulations

## Red Food Color

### Safety Data Sheet

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#### **Material safety data sheet**

Gel Spice Company, Inc.  
48 Hook Road  
Bayonne, NJ, 07002  
Tel: 201-339-0700

## **Yellow Food Color (SENSITIZER Y-5)**

### **Safety Data Sheet**

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#### **1.1. Identification**

Product form : Mixture  
Product name : Yellow Food Color (SENSITIZER Y-5)  
Product code : S9118

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

No additional information available

#### **1.3. Details of the supplier of the safety data sheet**

Shank's Extracts, Inc.  
350 Richardson Drive  
Lancaster, PA 17603  
T 717-393-4441 - F 717-393-3148  
[www.shanks.com](http://www.shanks.com)

#### **1.4. Emergency telephone number**

Emergency number : CHEMTREC: 1-800-424-9300

#### **2.1. Classification of the substance or mixture Classification (GHS-US)**

Skin corrosion/irritation

Category 2

H315

Full text of H statements : see section 16

#### **2.2. Label elements**

##### **GHS-US labeling**

Hazard pictograms (GHS-US) :

GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation

Precautionary statements (GHS-US) : P264 - Wash hands  
and any affected areas thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye  
protection/face protection

P302+P352 - If on skin: Wash with plenty of a doctor, a  
POISON CENTER

P321 - Specific treatment see doctor if affected

P332+P313 - If skin irritation occurs: Get medical  
advice/attention

P362+P364 - Take off contaminated clothing and wash it  
before reuse

#### **2.3. Other hazards**

No additional information available

#### **2.4. Unknown acute toxicity (GHS US)**

Not applicable

#### **3.1. Substance**

Not applicable

#### **3.2. Mixture**

## **Yellow Food Color (SENSITIZER Y-5)**

### **Safety Data Sheet**

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#### **Name Product identifier % Classification (GHS-US)**

trade name component\* (CAS No) Trade Secret 15.256641733  
2989

Skin Irrit. 2, H315

\*Chemical name, CAS number and/or exact concentration have  
been withheld as a trade secret

Full text of H-phrases: see section 16

#### **4.1. Description of first aid measures**

First-aid measures general : Never give anything by mouth to  
an unconscious person. If you feel unwell, seek medical  
advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh  
air and keep comfortable for breathing. Allow victim to  
breathe fresh

air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected  
clothing and wash all exposed skin area with mild soap and  
water, followed

by warm water rinse. Wash skin with plenty of water. Take  
off contaminated clothing. If skin  
irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately  
with plenty of water. Obtain medical attention if pain, blinking  
or redness

persist. Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Do NOT  
induce vomiting. Obtain emergency medical attention. Call a  
poison

center/doctor/physician if you feel unwell.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/injuries : Not expected to present a significant  
hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact : Irritation.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

#### **5.1. Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon  
dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do

not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

# Yellow Food Color (SENSITIZER Y-5)

## Safety Data Sheet

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### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid contact with skin and eyes.

Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : acids and bases.

Keep container closed when not in use. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

### 8.1. Control parameters

#### trade name component

OSHA OSHA PEL (TWA) (mg/m<sup>3</sup>) 15 mg/m<sup>3</sup> (mist, total particulate)

5 mg/m<sup>3</sup> (mist, respirable fraction)

### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves/protective clothing/eye protection/face protection. protective gloves.

Eye protection : Chemical goggles or safety glasses. Safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear appropriate mask.

Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use.

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : clear Yellow orange

Odor : characteristic

Odor threshold : No data available

pH : No data available

Melting point : Not applicable

Freezing point : No data available

Boiling point : No data available

Flash point : > 100 °C

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : No data available

Explosion limits : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Vapor pressure : No data available

Relative density : 1.05 - 1.07

Relative vapor density at 20 °C : No data available

Solubility : Water: Solubility in water of component(s) of the mixture :

• : 576 g/l (at 20 °C) • : 630 g/l (at 20 °C)

Log Pow : No data available

# Yellow Food Color (SENSITIZER Y-5)

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Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

### 9.2. Other information

No additional information available

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### trade name component

LD50 oral rat 12600 mg/kg

LD50 dermal rabbit > 10 g/kg

LC50 inhalation rat (mg/l) > 570 mg/m<sup>3</sup> (Exposure time: 1 h)

ATE US (oral) 12600.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure)

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms

: Based on available data, the classification criteria are not met.

Symptoms/injuries after skin contact : Irritation.

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

#### trade name component

LC50 fish 1 51 - 57 ml/l (Exposure time: 96 h - Species:

Oncorhynchus mykiss [static])

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### 12.2. Persistence and degradability

#### Yellow Food Color (SENSITIZER Y-5)

Persistence and degradability Not established.

### 12.3. Bioaccumulative potential

#### Yellow Food Color (SENSITIZER Y-5)

Bioaccumulative potential Not established.

#### trade name component

BCF fish 1 (no bioaccumulation)

Log Pow -1.76

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

### Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

#### TDG

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### 15.1. US Federal regulations

#### trade name component

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule

### 15.2. International regulations

#### CANADA

#### trade name component

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

#### EU-Regulations

#### trade name component

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

## Yellow Food Color (SENSITIZER Y-5)

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Product: **Raspberry**

Product :

SKU : **ras**

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade Name:** Raspberry

**Product/Sales No:**

### 1.2 Relevant identified product use

**Intended use:** Compound used in customer substance/mixture/product

### 1.3 Details of the manufacturer/supplier of the safety data sheet

Wellington Fragrance  
33306 Glendale St.  
Livonia, MI 48150 USA  
734-261-5531 Fax 734-261-5571  
wellingtonfragrance.com

### 1.4 Emergency telephone number

**(800) 255-3924** Domestic USA, Canada, Puerto Rico, and US Virgin Islands

**+1 813 248-0585** International (CHEMTEL MIS 0000533)

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

This mixture has not been tested as a whole. The effects, listed below, are based on evaluation of individual components in accordance with the provisions of the regulation(s) noted below.

#### Classification according to GHS Regulation (EC) No 1272/2008

Aquatic Acute Toxicity, Category 2	:
Flammable Liquids, Category 4	H227: Combustible liquid
Acute Toxicity Oral, Category 5	H303: May be harmful if swallowed
Acute Toxicity Dermal, Category 5	H313: May be harmful in contact with skin
Skin Corrosion/Irritation, Category 2	H315: Causes skin irritation
Sensitization, Skin, Category 1B	H317: May cause an allergic skin reaction
Acute Toxicity Inhalation, Category 4	H332: Harmful if inhaled
Carcinogenicity, Category 2	H351: Suspected of causing cancer
Aquatic Chronic Toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects

#### Classification OSHA (Provisions 1910.1200 of title 29)

Flammability	Class IIIA Combustible Liquid
Acute Dermal/Eye	12 : Causes moderate skin irritation. 15 : May cause eye irritation.
Acute Oral	3 : May be harmful if swallowed or if aspirated into the lungs
Sensitization/Allergic Response	31 : May cause allergic skin reaction.
Target Organ Effects	28 : Prolonged or repeated Dermal Exposure may cause damage to: kidneys, skin
Carcinogenicity	This mixture contains ingredients identified as carcinogens, at 0.1 or greater, by the following: None [ ] ACGIH [ ] IARC [ ] NTP [ ] OSHA [ ]

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

**Hazard pictograms**

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**Signal Word: Warning**

## Hazard statements

H227	Combustible liquid
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H351	Suspected of causing cancer
H411	Toxic to aquatic life with long lasting effects

## Precautionary Statements

### Prevention:

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P235	Keep cool
P264	Wash hands thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P281	Use personal protective equipment as required

### Response:

P302 + P352	IF ON SKIN: Wash with soap and water
P304 + P312 + P340	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell Remove victim to fresh air and keep at rest in a position comfortable for breathing
P308 + P313	IF exposed or concerned: Get medical advice/attention
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P333 + P313	If skin irritation or a rash occurs: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P370 + P378	In case of fire: Use Carbon dioxide (CO2), Dry chemical, or Foam for extinction. Do not use a direct water jet on burning material
P391	Collect Spillage

## 2.3 Other Hazards

no data available

## 3. Composition/Information on Ingredients

### 3.1 Mixtures

This product is a complex mixture of ingredients, which contains among others the following substance(s), presenting a health or environmental hazard within the meaning of the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS):

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CAS# Ingredient	EC#	Conc. Range	GHS Classification	OSHA Classification
<b>8050-15-5</b> <i>Methyl ester of rosin (partially hydrogenated)</i>	232-476-2	50 - 60	H412	31
<b>120-51-4</b> <i>Benzyl Benzoate</i>	204-402-9	10 - 20	H302 H313 H411	28, 3
<b>8008-57-9</b> <i>Citrus aurantium dulcis (Orange) oil</i>	232-433-8	5 - 10	H226 H304 H315 H410	12, 3, 31
<b>110-27-0</b> <i>Isopropyl myristate</i>	203-751-4	2 - 5	H316	
<b>141-97-9</b> <i>Ethyl acetoacetate</i>	205-516-1	2 - 5	H227 H303 H316	
<b>108-64-5</b> <i>Ethyl isovalerate</i>	203-602-3	2 - 5	H226 H315	11
<b>103-37-7</b> <i>Benzyl butyrate</i>	203-105-1	1 - 2	H303 H316	
<b>77-83-8</b> <i>Ethyl methylphenylglycidate</i>	201-061-8	1 - 2	H317 H411	11, 15
<b>659-70-1</b> <i>Isoamyl isovalerate</i>	211-536-1	1 - 2	H227 H411	11, 15
<b>104-21-2</b> <i>p-Anisyl acetate</i>	203-185-8	1 - 2	H303 H315 H319	12, 15
<b>127-41-3</b> <i>alpha-Ionone</i>	204-841-6	1 - 2	H316	11, 15
<b>105-54-4</b> <i>Ethyl butyrate</i>	203-306-4	1 - 2	H226 H316	11
<b>8030-89-5</b> <i>Rum ether</i>	232-449-5	0.1 - 1.0	H225 H314 H336 H351	

See Section 16 for full text of GHS classification codes

Total Hydrocarbon Content ( w/w) = 5.35

## 4. First Aid Measures

### 4.1 Description of first aid measures

<b>Inhalation:</b>	Remove from exposure site to fresh air and keep at rest. Obtain medical advice.
<b>Eye Exposure:</b>	Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
<b>Skin Exposure:</b>	Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.
<b>Ingestion:</b>	Rinse mouth with water and obtain medical advice.

### 4.2 Most important symptoms and effects, both acute and delayed

<b>Symptoms:</b>	no data available
<b>Risks:</b>	Refer to Section 2.2 "Hazard Statements"



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## 4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Refer to Section 2.2 "Response"

## 5. Fire-Fighting measures

### 5.1 Extinguishing media

Suitable: Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam

Unsuitable: Do not use a direct water jet on burning material

### 5.2 Special hazards arising from the substance or mixture

During fire fighting: Water may be ineffective

### 5.3 Advice for firefighters

Further information: Standard procedure for chemical fires

## 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

### 6.2 Environmental precautions

Keep away from drains, soil, and surface and groundwater.

### 6.3 Methods and materials for containment and cleaning up

Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapors. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

### 6.4 Reference to other sections

Not Applicable

## 7. Handling and Storage

### 7.1 Precautions for safe handling

Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Do not drink, eat or smoke while handling. Respect good personal hygiene.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Avoid plastic and uncoated metal container. Keep air contact to a minimum.

### 7.3 Specific end uses

No information available

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

Exposure Limits: Contains no substances with occupational exposure limit values

Engineering Controls: Use local exhaust as needed.

### 8.2 Exposure controls - Personal protective equipment

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<b>Eye protection:</b>	Tightly sealed goggles, face shield, or safety glasses with brow guards and side shields, etc. as may be appropriate for the exposure
<b>Respiratory protection:</b>	Avoid excessive inhalation of concentrated vapors. Apply local ventilation where appropriate.
<b>Skin protection:</b>	Avoid Skin contact. Use chemically resistant gloves as needed.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Conforms to Standard
<b>Odor:</b>	Conforms to Standard
<b>Color:</b>	Yellow
<b>Viscosity:</b>	Liquid
<b>Freezing Point:</b>	Not determined
<b>Boiling Point:</b>	Not determined
<b>Melting Point:</b>	Not determined
<b>Flashpoint:</b>	148 F (64.44 C)
<b>Auto flammability:</b>	Not determined
<b>Explosive Properties:</b>	None Expected
<b>Oxidizing properties:</b>	None Expected
<b>Vapor Pressure (mmHg@20 C):</b>	0.7865
<b>%VOC:</b>	14.5041
<b>Specific Gravity @ 25 C:</b>	1.0020
<b>Density @ 25 C:</b>	0.9990
<b>Refractive Index @ 25 C:</b>	1.5000
<b>Soluble in:</b>	Oil

## 10. Stability and Reactivity

<b>10.1 Reactivity</b>	None
<b>10.2 Chemical stability</b>	Stable
<b>10.3 Possibility of hazardous reactions</b>	None known
<b>10.4 Conditions to avoid</b>	None known
<b>10.5 Incompatible materials</b>	Strong oxidizing agents, strong acids, and alkalis
<b>10.6 Hazardous decomposition products</b>	None known

## 11. Toxicological Information

### 11.1 Toxicological Effects

<b>Acute toxicity - Oral</b>	(LD50: 3,502.31) May be harmful if swallowed
<b>Acute toxicity - Dermal</b>	(LD50: 4,346.76) May be harmful in contact with skin
<b>Acute toxicity - Inhalation</b>	(LC50: 18.81) Harmful if inhaled

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<b>Skin corrosion / irritation</b>	Causes skin irritation
<b>Serious eye damage / irritation</b>	Not classified - the classification criteria are not met
<b>Respiratory sensitization</b>	Not classified - the classification criteria are not met
<b>Skin sensitization</b>	May cause an allergic skin reaction
<b>Germ cell mutagenicity</b>	Not classified - the classification criteria are not met
<b>Carcinogenicity</b>	Suspected of causing cancer
<b>Reproductive toxicity</b>	Not classified - the classification criteria are not met
<b>Specific target organ toxicity - single exposure</b>	Not classified - the classification criteria are not met
<b>Specific target organ toxicity - repeated exposure</b>	Not classified - the classification criteria are not met
<b>Aspiration hazard</b>	Not classified - the classification criteria are not met

## 12. Ecological Information

### 12.1 Toxicity

<b>Acute aquatic toxicity</b>	
<b>Chronic aquatic toxicity</b>	Toxic to aquatic life with long lasting effects
<b>Toxicity Data on soil</b>	no data available
<b>Toxicity on other organisms</b>	no data available

**12.2 Persistence and degradability** no data available

**12.3 Bioaccumulative potential** no data available

**12.4 Mobility in soil** no data available

**12.5 Other adverse effects** no data available

## 13. Disposal Conditions

### 13.1 Waste treatment methods

Do not allow product to reach sewage systems. Dispose of in accordance with all local and national regulations. Send to a licensed waste management company. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.

## 14. Transport Information

Regulator	Class	Pack Group	Sub Risk	UN-nr.
<b>U.S. DOT (Non-Bulk)</b> Chemicals NOI	Not Regulated - Not Dangerous Goods			
<b>ADR/RID (International Road/Rail)</b>				
Environmentally Hazardous Liquid, n.o.s.	Substance, 9	III		UN3082
<b>IATA (Air Cargo)</b>				
Environmentally Hazardous Liquid, n.o.s.	Substance, 9	III		UN3082
<b>IMDG (Sea)</b>				

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Environmentally Hazardous Liquid, n.o.s.	Substance,	9	III	UN3082
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## 15. Regulatory Information

### U.S. Federal Regulations:

**TSCA (Toxic Substance Control Act):** All components of the substance/mixture are listed or exempt

**40 CFR(EPCRA, SARA, CERCLA and CAA)** This product contains NO components of concern.

### U.S. State Regulations:

**California Proposition 65 Warning** No Warning required

### Canadian Regulations:

**DSL / NDSL** 100.03 of the components are listed or exempt.

## 16. Other Information

### GHS H-Statements referred to under section 3

H225 : Highly flammable liquid and vapor

H227 : Combustible liquid

H303 : May be harmful if swallowed

H313 : May be harmful in contact with skin

H315 : Causes skin irritation

H317 : May cause an allergic skin reaction

H336 : May cause drowsiness or dizziness

H410 : Very toxic to aquatic life with long lasting effects

H412 : Harmful to aquatic life with long lasting effects

H226 : Flammable liquid and vapour

H302 : Harmful if swallowed

H304 : May be fatal if swallowed and enters airways

H314 : Causes severe skin burns and eye damage

H316 : Causes mild skin irritation

H319 : Causes serious eye irritation

H351 : Suspected of causing cancer

H411 : Toxic to aquatic life with long lasting effects

### Total Fractional Values

(TFV) Risk

(7.74) Aquatic Acute Toxicity, Category 2

(1.80) Sensitization, Skin, Category 1B

(3.15) Aquatic Chronic Toxicity, Category 2

(TFV) Risk

(1.29) Skin Corrosion/Irritation, Category 2

(3.00) Carcinogenicity, Category 2

**Department issuing data sheet:**

**Department E-mail address:**

Remarks

This safety data sheet is based on the properties of the material known to Wellington Fragrance at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment Wellington holds no responsibility. This document is not intended for quality assurance purposes.

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# Safety Data Sheet

SDS Type: GHS / OSHA

DOC ID: 41555.595008.11445469

Product: **Vanilla Phthalate Free**

Product :

SKU :

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade Name:** Vanilla Phthalate Free

**Product/Sales No:**

### 1.2 Relevant identified product use

**Intended use:** Compound used in customer substance/mixture/product

### 1.3 Details of the manufacturer/supplier of the safety data sheet

Wellington Fragrance  
33306 Glendale St.  
Livonia, MI 48150 USA  
734-261-5531 Fax 734-261-5571  
wellingtonfragrance.com

### 1.4 Emergency telephone number

**(800) 255-3924** Domestic USA, Canada, Puerto Rico, and US Virgin Islands

**+1 813 248-0585** International (CHEMTEL MIS 0000533)

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

This mixture has not been tested as a whole. The effects, listed below, are based on evaluation of individual components in accordance with the provisions of the regulation(s) noted below.

#### Classification according to GHS Regulation (EC) No 1272/2008

Aquatic Acute Toxicity, Category 1	:
Acute Toxicity Oral, Category 4	H302: Harmful if swallowed
Acute Toxicity Dermal, Category 5	H313: May be harmful in contact with skin
Sensitization, Skin, Category 1B	H317: May cause an allergic skin reaction
Eye Damage/Eye Irritation, Category 2A	H319: Causes serious eye irritation
Acute Toxicity Inhalation, Category 5	H333: May be harmful if inhaled
Carcinogenicity, Category 2	H351: Suspected of causing cancer
Aquatic Chronic Toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects

#### Classification OSHA (Provisions 1910.1200 of title 29)

Flammability	Class IIIB Combustible Liquid
Acute Dermal/Eye	12 : Causes moderate skin irritation. 15 : May cause eye irritation. 9 : Harmful if absorbed through the skin.
Acute Oral	2 : Harmful if swallowed
Sensitization/Allergic Response	31 : May cause allergic skin reaction.
Target Organ Effects	26 : Prolonged or repeated ingestion may cause damage to: kidneys, liver, spleen, blood, bile duct. 28 : Prolonged or repeated Dermal Exposure may cause damage to: kidneys, skin
Carcinogenicity	This mixture contains ingredients identified as carcinogens, at 0.1 or greater, by the following:None [ ] ACGIH [ ] IARC [ ] NTP [ ] OSHA [ ]

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

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## Hazard pictograms



**Signal Word: Warning**

## Hazard statements

H302	Harmful if swallowed
H313	May be harmful in contact with skin
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H333	May be harmful if inhaled
H351	Suspected of causing cancer
H411	Toxic to aquatic life with long lasting effects

## Precautionary Statements

### Prevention:

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P281	Use personal protective equipment as required

### Response:

P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth
P302 + P352	IF ON SKIN: Wash with soap and water
P304 + P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses if present and easy to do. continue rinsing
P308 + P313	IF exposed or concerned: Get medical advice/attention
P333 + P313	If skin irritation or a rash occurs: Get medical advice/attention
P337 + P313	If eye irritation persists: Get medical advice/attention
P363	Wash contaminated clothing before reuse
P391	Collect Spillage

## 2.3 Other Hazards

no data available

## 3. Composition/Information on Ingredients

### 3.1 Mixtures

This product is a complex mixture of ingredients, which contains among others the following substance(s), presenting a health or environmental hazard within the meaning of the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS):

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CAS# Ingredient	EC#	Conc. Range	GHS Classification	OSHA Classification
120-51-4 <i>Benzyl Benzoate</i>	204-402-9	70 - 80	H302 H313 H411	28, 3
121-32-4 <i>Ethyl vanillin</i>	204-464-7	10 - 20	H303 H320	
91-64-5 <i>Coumarin</i>	202-086-7	5 - 10	H302 H317	12, 15, 2, 26, 31, 9
121-33-5 <i>Vanillin</i>	204-465-2	2 - 5	H303 H319	31
706-14-9 <i>gamma-Decalactone</i>	211-892-8	1 - 2	H316	
8030-89-5 <i>Rum ether</i>	232-449-5	0.1 - 1.0	H225 H314 H336 H351	

See Section 16 for full text of GHS classification codes

Total Hydrocarbon Content ( w/w) = 0.33

## 4. First Aid Measures

### 4.1 Description of first aid measures

Inhalation:	Remove from exposure site to fresh air and keep at rest. Obtain medical advice.
Eye Exposure:	Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
Skin Exposure:	Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.
Ingestion:	Rinse mouth with water and obtain medical advice.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	no data available
Risks:	Refer to Section 2.2 "Hazard Statements"

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment:	Refer to Section 2.2 "Response"
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## 5. Fire-Fighting measures

### 5.1 Extinguishing media

Suitable:	Carbon dioxide (CO2), Dry chemical, Foam
Unsuitable	Do not use a direct water jet on burning material

### 5.2 Special hazards arising from the substance or mixture

During fire fighting:	Water may be ineffective
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### 5.3 Advice for firefighters

Further information:	Standard procedure for chemical fires
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## 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

### 6.2 Environmental precautions

Keep away from drains, soil, and surface and groundwater.

### 6.3 Methods and materials for containment and cleaning up

Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapors. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

### 6.4 Reference to other sections

Not Applicable

## 7. Handling and Storage

### 7.1 Precautions for safe handling

Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Do not drink, eat or smoke while handling. Respect good personal hygiene.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Avoid plastic and uncoated metal container. Keep air contact to a minimum.

### 7.3 Specific end uses

No information available

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

**Exposure Limits:** Contains no substances with occupational exposure limit values

**Engineering Controls:** Use local exhaust as needed.

### 8.2 Exposure controls - Personal protective equipment

**Eye protection:** Tightly sealed goggles, face shield, or safety glasses with brow guards and side shields, etc. as may be appropriate for the exposure

**Respiratory protection:** Avoid excessive inhalation of concentrated vapors. Apply local ventilation where appropriate.

**Skin protection:** Avoid Skin contact. Use chemically resistant gloves as needed.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

**Appearance:** Conforms to Standard

**Odor:** Conforms to Standard

**Color:** Pale Yellow to Yellow

**Viscosity:** Liquid

**Freezing Point:** Not determined

**Boiling Point:** Not determined

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<b>Melting Point:</b>	Not determined
<b>Flashpoint:</b>	>200 F (93.33 C)
<b>Auto flammability:</b>	Not determined
<b>Explosive Properties:</b>	None Expected
<b>Oxidizing properties:</b>	None Expected
<b>Vapor Pressure (mmHg@20 C):</b>	2.2795
<b>%VOC:</b>	1.2725
<b>Specific Gravity @ 25 C:</b>	1.1300
<b>Density @ 25 C:</b>	1.1270
<b>Refractive Index @ 25 C:</b>	1.5680
<b>Soluble in:</b>	Oil

## 10. Stability and Reactivity

<b>10.1 Reactivity</b>	None
<b>10.2 Chemical stability</b>	Stable
<b>10.3 Possibility of hazardous reactions</b>	None known
<b>10.4 Conditions to avoid</b>	None known
<b>10.5 Incompatible materials</b>	Strong oxidizing agents, strong acids, and alkalis
<b>10.6 Hazardous decomposition products</b>	None known

## 11. Toxicological Information

### 11.1 Toxicological Effects

<b>Acute toxicity - Oral</b>	(LD50: 1,508.32) Harmful if swallowed
<b>Acute toxicity - Dermal</b>	(LD50: 2,357.76) May be harmful in contact with skin
<b>Acute toxicity - Inhalation</b>	(LC50: 231.94) May be harmful if inhaled
<b>Skin corrosion / irritation</b>	Not classified - the classification criteria are not met
<b>Serious eye damage / irritation</b>	Causes serious eye irritation
<b>Respiratory sensitization</b>	Not classified - the classification criteria are not met
<b>Skin sensitization</b>	May cause an allergic skin reaction
<b>Germ cell mutagenicity</b>	Not classified - the classification criteria are not met
<b>Carcinogenicity</b>	Suspected of causing cancer
<b>Reproductive toxicity</b>	Not classified - the classification criteria are not met
<b>Specific target organ toxicity - single exposure</b>	Not classified - the classification criteria are not met
<b>Specific target organ toxicity - repeated exposure</b>	Not classified - the classification criteria are not met
<b>Aspiration hazard</b>	Not classified - the classification criteria are not met

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## 12. Ecological Information

### 12.1 Toxicity

Acute aquatic toxicity	
Chronic aquatic toxicity	Toxic to aquatic life with long lasting effects
Toxicity Data on soil	no data available
Toxicity on other organisms	no data available

12.2 Persistence and degradability	no data available
12.3 Bioaccumulative potential	no data available
12.4 Mobility in soil	no data available
12.5 Other adverse effects	no data available

## 13. Disposal Conditions

### 13.1 Waste treatment methods

Do not allow product to reach sewage systems. Dispose of in accordance with all local and national regulations. Send to a licensed waste management company. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.

## 14. Transport Information

Regulator	Class	Pack Group	Sub Risk	UN-nr.
<b>U.S. DOT (Non-Bulk)</b> Chemicals NOI	Not Regulated - Not Dangerous Goods			
<b>ADR/RID (International Road/Rail)</b>				
Environmentally Hazardous Liquid, n.o.s.	Substance,	9	III	UN3082
<b>IATA (Air Cargo)</b>				
Environmentally Hazardous Liquid, n.o.s.	Substance,	9	III	UN3082
<b>IMDG (Sea)</b>				
Environmentally Hazardous Liquid, n.o.s.	Substance,	9	III	UN3082

## 15. Regulatory Information

### U.S. Federal Regulations:

<b>TSCA (Toxic Substance Control Act):</b>	All components of the substance/mixture are listed or exempt
<b>40 CFR(EPCRA, SARA, CERCLA and CAA)</b>	This product contains NO components of concern.

### U.S. State Regulations:

<b>California Proposition 65 Warning</b>	This product contains the following components:
94-59-7      202-345-4      = 12 ppm	Safrole (NFS)
93-15-2      202-223-0      = 3 ppm	Methyl eugenol (NFS)

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## Canadian Regulations:

DSL / NDSL

100.00 of the components are listed or exempt.

## 16. Other Information

### GHS H-Statements referred to under section 3

H225 : Highly flammable liquid and vapor

H303 : May be harmful if swallowed

H314 : Causes severe skin burns and eye damage

H317 : May cause an allergic skin reaction

H320 : Causes eye irritation

H351 : Suspected of causing cancer

H302 : Harmful if swallowed

H313 : May be harmful in contact with skin

H316 : Causes mild skin irritation

H319 : Causes serious eye irritation

H336 : May cause drowsiness or dizziness

H411 : Toxic to aquatic life with long lasting effects

### Total Fractional Values

(TFV) Risk

(2.92) Aquatic Acute Toxicity, Category 1

(1.99) Eye Damage/Eye Irritation, Category 2A

(3.07) Aquatic Chronic Toxicity, Category 2

(TFV) Risk

(5.00) Sensitization, Skin, Category 1B

(2.00) Carcinogenicity, Category 2

Department issuing data sheet:

Department E-mail address:

### Remarks

This safety data sheet is based on the properties of the material known to Wellington Fragrance at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment Wellington holds no responsibility. This document is not intended for quality assurance purposes.