



## Orange Oil

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Orange Oil  
**Product Code(s):** ORG-16  
**Other means of Identification:**  
**Recommended Use:** Multi-purpose Concentrated Cleaner

**Manufacturer/Marketer:**  
P.F. Harris Manufacturing Company, LLC  
P.O. Box 1922  
Cartersville, GA 30120  
Email: [info@pfharris.com](mailto:info@pfharris.com)  
[www.pfharris.com](http://www.pfharris.com)

**Customer Service:** 1-800-637-0317  
Monday-Friday, 9am – 5pm EST

**Emergency:**  
National Poison Control: 1-800-222-1222  
24 hour Emergency Telephone: 1-800-255-3924

### SECTION 2. HAZARDS IDENTIFICATION

**OSHA Regulatory Status:**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**HAZARDS CLASSIFICATION:**

Acute Toxicity – Category 4  
Skin Irritation/Corrosion – Category 2  
Serious Eye Damage/Irritation – Category 2A  
Skin Sensitizer – Category 1  
Flammable Liquid – Category 3

**SIGNAL WORD:** **WARNING**

**GHS HAZARD PICTOGRAMS:**



**Hazard Statements:** Flammable Liquid and vapor. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Harmful if swallowed.

**Precautionary Statements:** Keep away from heat, sparks, flame and other sources of ignition. No smoking. Keep container tightly closed. Wash thoroughly after handling. Wear Protective gloves. Contaminated clothing should not be allowed out of the workplace.

**Acute/Potential Health Effects:**

**EYES:** Causes eye irritation with direct contact. Transient redness and irritation.

**SKIN:** Causes skin irritation. Prolonged or repeated contact can dry skin and cause irritation.

**INHALATION:** Prolonged or repeated inhalation of spray mists may cause irritation to upper respiratory tract and mucous membranes.

**INGESTION:** May be irritating to the digestive tract: may cause gastric distress, stomach pains.

**Chronic/Long Term Effects:** Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc. may be more susceptible to irritating effects.

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

Substance/Mixture: Mixture

Chemical Name	CAS Number	WT %
Orange oil	8008-57-9	80-95
Nonionic surfactant	proprietary	1-10
emulsifier	proprietary	1-10

These components contain no substances or impurities which influence the classification of this product.

**SECTION 4. FIRST AID MEASURES**

**EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation persists.

**SKIN:** If irritation develops, rinse skin with plenty of water and wash clothing before reuse. Get medical attention if irritation persists.

**INHALATION:** Remove affected person to fresh air. Get medical attention if irritation persists.

**INGESTION:** Rinse mouth and drink plenty of water. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.

**SECTION 5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Flammable liquid and vapor. Keep away from heat, sparks, flame and other sources of ignition. No smoking. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**SPECIFIC HAZARDS:** Closed containers may explode due to buildup of pressure when exposed to extreme heat. Products of combustion include compounds of carbon and oxygen, including carbon monoxide.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Use appropriate personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Prevent product from entering drains. Avoid contact with eyes, skin and clothing. Collect with an absorbent material into a suitable container for disposal.

## SECTION 7. HANDLING AND STORAGE

**HANDLING:** Use this product only in a manner consistent with its labeling. Keep away from heat, sparks, flame and other sources of ignition. Do not mix with any other household cleaners. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors, mists or spray. Use only with adequate ventilation. Do not contaminate water, food or feedstuffs by storage, handling, or disposal. Wash thoroughly after handling.

**STORAGE:** Store only in original (tightly closed), container, inaccessible to children and pets. Keep away from heat, sparks, flame and other sources of ignition. No smoking. Store away from food and pet-food. Emptied containers may retain product residues. Do not reuse empty containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
Orange oil, sweet ext. (contains d-limonene, other limonenes)			10		5		

**ENGINEERING CONTROLS:** No special controls indicated.

**Eye Protection:** Recommended: safety glasses

**Skin Protection:** Recommended: protective gloves

**Respiratory Protection:** Use with adequate ventilation.

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Appearance and Odor:** dark, amber/orange with citrus odor

**pH:** N/A

**Freezing Point:** 32°F (0°C)

**Boiling Point:**

>212°F (100°C)

**Flash Point:** 131°F (55°C)

**Evaporation Rate (water=1):** 1

**Flammability:** N/A

**Upper/Lower Explosive limits:** N/A

**Vapor Pressure:** <1

**Vapor Density (air=1) (20°C):** >1

**Specific Gravity (Water=1):** 0.88

**Solubility:** Emulsifies in water

**VOC:** >100 SUS

## SECTION 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable.

**Conditions to Avoid:** Temperature extremes or sources of ignition

**Hazardous Decomposition Products:** possible carbon oxides, (CO, CO<sub>2</sub>)

**Incompatible Materials:** Do not mix with any other household cleaners. Avoid strong acids, oxidizing agents.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Toxicological Data:

Orange Oil	8008-57-9	Oral LD50 (rat): 5000 mg/kg Dermal LD50 (rabbit): 5000 mg/kg
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**Eye contact:** Direct contact causes eye irritation.

**Skin contact:** Prolonged or repeated contact can cause irritation.

**Sensitization:** May cause sensitization in susceptible persons. May cause skin sensitization by skin contact.

**Inhalation:** Generated mists can be irritating. May cause irritation to the nose, throat and upper respiratory tract.

**Acute effects:** May be harmful if swallowed in large/excessive quantities.

**Carcinogenicity:** None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Orange oil, sweet ext.: Danio rerio LL50: 5.65 mg/L/96 hr.

**Persistence and Degradability:** This product decomposes in the environment - Biodegradable.

**Soil Mobility:** No further relevant information available

Do not discharge effluent containing this product into lakes, streams, ponds estuaries or sewer systems.

## SECTION 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**RCRA Waste code(s):** D001

## SECTION 14. TRANSPORT INFORMATION

	DOT Classification	TDG Classification	IMDG	IATA
UN Number	1993	1993	1993	1993
UN Proper Shipping Name	Flammable liquids, n.o.s. (Orange oil)	Flammable liquids, n.o.s. (Orange oil)	Flammable liquids, n.o.s. (Orange oil)	Flammable liquids, n.o.s. (Orange oil)
Transport Hazard Class	3	3	3	3
Packing Group	III	III	III	III
Environmental Hazards	-	-	-	-
Additional Information	-	-	-	-

\*See 49CFR 173.150(f) – combustible liquid exception

## SECTION 15. REGULATORY INFORMATION

### US Federal Regulations:

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** The ingredients of this product are listed or exempted from listing because of Low Volume Exemption has been granted in accordance with 40 CFR 723.50

**SARA 302/304 EMERGENCY PLANNING EMERGENCY PLAN:** There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

**SARA 311/312:** Acute Health: ☒ Chronic: ☐ Fire: ☒ Sudden Release of Pressure: ☐ Reactive: ☐

**SARA 313 (Specific Toxic chemical listings):** None

**CERCLA Section 103.**

**State and Local Regulations:** Certain states maintain their own ingredient lists which differ slightly from the Federal standards. Check with your state for additional regulations.

**CA Proposition 65 (Safe Drinking Water & Toxic Enforcement Act of 1986):** This product does not contain any Proposition 65 chemicals.

## SECTION 16. OTHER INFORMATION

**Date of issue/revision:** 04/16/2021

**Version:** 1.0

**Date of previous issue:** none

Revision Note:

**Notice to reader:** This SDS is intended to quickly provide useful information to the user(s) of this material or product. It is not intended to serve as a comprehensive discussion of all possible risks or hazards, and it assumes a reasonable use of the product. The information contained in this SDS is believed to be accurate as of the date of preparation of this SDS and has been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. The user or handler (or their employer) should consider the specific conditions in which this material will be used, handles or stored and determine what specific safety or other precautions are required. Employers should ensure that their employees, agents, contractor and customers who will use this product receive adequate warnings and safe handling procedures, including a current SDS. Product users or handlers (or their employer) who are unsure what specific precautions are required should consult their employer, product supplier, or safety or health professionals before handling or working with this product. Please notify us immediately if you believe this SDS or other safety and health information about this product is inaccurate or incomplete.



## 30% Vinegar

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 30% Vinegar  
**Product Code(s):** VINE30-128  
**Other means of Identification:**  
**Recommended Use:** Multi-Use Concentrated Cleaner

**Manufacturer/Marketer:**  
P.F. Harris Manufacturing Company, LLC  
P.O. Box 1922  
Cartersville, GA 30120  
Email: [info@pfharris.com](mailto:info@pfharris.com)  
[www.pfharris.com](http://www.pfharris.com)

**Customer Service:** 1-800-637-0317  
Monday-Friday, 9am – 5pm EST

**Emergency:**  
National Poison Control: 1-800-222-1222  
24 hour Emergency Telephone: 1-800-255-3924

### SECTION 2. HAZARDS IDENTIFICATION

**OSHA Regulatory Status:**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**HAZARDS CLASSIFICATION:**

Skin Corrosion/Irritation – Category 1C  
Serious Eye Damage/Eye Irritation - Category 1

**SIGNAL WORD:** DANGER

**GHS HAZARD PICTOGRAMS:**



**Hazard Statements:** Causes severe skin burns and eye damage.

**Precautionary Statements:** Do not breathe mists, vapors, spray. Wash thoroughly after handling. Wear protective clothing/eye protection/face protection. Wash contaminated clothing before reuse. Store locked up.

**Acute/Potential Health Effects:**

**EYES:** Causes eye burns/damage.

**SKIN:** Causes skin burns.

**INHALATION:** Inhalation of mists or vapors may cause irritation to upper respiratory tract and mucous membranes.

**INGESTION:** May be harmful if swallowed. May cause mouth, throat and gastrointestinal irritation.

**Chronic/Long Term Effects:** Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc. may be more susceptible to irritating effects.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Chemical Name	CAS Number	WT %
Acetic Acid	64-19-7	30
Water	7732-18-5	70

These components contain no substances or impurities which influence the classification of this product.

### SECTION 4. FIRST AID MEASURES

**EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**SKIN:** Rinse skin with plenty of water for 15-20 minutes. Wash clothing before reuse. Get medical attention if irritation persists.

**INHALATION:** Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**INGESTION:** Rinse mouth. Do NOT induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person. Get medical attention.

### SECTION 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use any means suitable for extinguishing surrounding fire.

**SPECIFIC HAZARDS:** Closed containers may explode due to buildup of pressure when exposed to extreme heat. In case of fire may decompose to release chlorine, oxides of carbon, toxic fumes, vapors and smoke.

**SPECIAL PROTECTIVE EQUIPMENT:** Safety glasses, gloves.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment. Avoid contact with eyes, skin and clothing. Dilute spilled with water. Collect with an absorbent material into a suitable container for disposal. Do not flush to storm sewer.

### SECTION 7. HANDLING AND STORAGE

**HANDLING:** Use this product only in a manner consistent with its labeling. Do not mix with any other household cleaners. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors, mists or spray. Use only with adequate ventilation. Do not contaminate water, food or feedstuffs by storage, handling, or disposal. Wash thoroughly after handling.

**STORAGE:** Store only in original container, inaccessible to children and pets. Keep away from temperature extremes. Store away from food and pet-food. Emptied containers may retain product residues. Do not reuse empty containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
Acetic Acid		10		15			

**ENGINEERING CONTROLS:** No special controls indicated.

**Eye Protection:** Wear protective splash goggles/face shield

**Skin Protection:** Wear protective gloves and protective clothing to avoid skin contact.

Recommended: Rubber or Neoprene gloves

**Respiratory Protection:** Use with adequate ventilation. Avoid breathing vapors, mists or spray.

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Appearance and Odor:** Clear, colorless, vinegar/pungent odor

**pH:** ≤2.0

**Freezing Point:** 32°F (0°C)

**Boiling Point:**

212°F (100°C)

**Flash Point:** N/A

**Evaporation Rate (water=**

**1):** 1

**Flammability:** N/A

**Upper/Lower Explosive limits:** N/A

**Vapor Pressure:** 11 mm Hg at 20°C (acetic acid)

**Vapor Density (air=1) (20°C) :** >1

**Specific Gravity (Water=1):** Not determined

**Solubility:** Soluble in water

**Viscosity:** water

**VOC:** 30%

## SECTION 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Direct sources of heat. Extremely high or low temperatures.

**Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire may decompose to release chlorine, oxides of carbon, toxic fumes, vapors and smoke.

**Incompatible Materials:** Do not mix with any other household cleaners. Avoid strong oxidizers, strong alkalis, and certain metals



## SECTION 11. TOXICOLOGICAL INFORMATION

**Toxicological Data:** No data for mixture

Acetic Acid	64-19-7	Oral LD50: 3310 mg/Kg Dermal LD50 (rabbit): 1060 mg/kg Inhalation LC50 (rat): 11.4 mg/L/4 hr.
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**Eye contact:** Corrosive to eyes. Causes serious eye damage.

**Skin contact:** Corrosive to skin

**Sensitization:** None known.

**Inhalation:** Mists are irritating. May cause irritation to the nose, throat and upper respiratory tract. High concentrations of acetic acid vapor may cause pulmonary edema. Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc. may be more susceptible to irritating effects.

**Carcinogenicity:** None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

## SECTION 12. ECOLOGICAL INFORMATION

Readily biodegradable. Not bioaccumulative. No adverse impact is expected when used according to label directions.

Do not discharge effluent containing this product into lakes, streams, ponds estuaries or sewer systems.

## SECTION 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## SECTION 14. TRANSPORT INFORMATION

	DOT Classification	TDG Classification	IMDG	IATA
UN Number	UN2790	UN2790	Not Classified	Not classified
UN Proper Shipping Name	Acetic Acid solution (with more than 10 percent and less than 50 percent acid, by mass)	Acetic Acid solution (with more than 10 percent and less than 50 percent acid, by mass)	-	-
Transport Hazard Class	8	8	-	-
Packing Group	III	III	-	-
Environmental Hazards	-	-	-	-
Additional Information	*Limited Quantity Exception	*Limited Quantity Exception	-	-

\*See 49CFR 173.154 Class 8 Materials

## SECTION 15. REGULATORY INFORMATION

### US Federal Regulations:

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** The ingredients of this product are listed or exempted from listing because of Low Volume Exemption has been granted in accordance with 40 CFR 723.50

**SARA 302/304 EMERGENCY PLANNING EMERGENCY PLAN:** There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

**SARA 311/312:** Acute Health: ☒ Chronic: ☐ Fire: ☐ Sudden Release of Pressure: ☐ Reactive: ☐

**SARA 313 (Specific Toxic chemical listings):** None

**CERCLA Section 103:** This product has a calculated RQ of 16,600 lbs. based on the RQ of Acetic Acid of 5,000 lbs. Many states have more stringent release reporting requirements. Report large spills required under federal, state and local regulations.

**State and Local Regulations:** Certain states maintain their own ingredient lists which differ slightly from the Federal standards. If indicated under Section 2 of this SDS, states listed below may have regulations on ingredients contained in this product. Check with your state for additional regulations.

**CA Proposition 65 (Safe Drinking Water & Toxic Enforcement Act of 1986):** This product does not contain any Proposition 65 chemicals.

## SECTION 16. OTHER INFORMATION

**Date of issue/revision:** 04/26/2019

**Version:** 1.0

**Date of previous issue:** 01/10/2019

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