

### XT-2000 Incorporated

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# Safety Data Sheet (SDS)

Prepared to GHS Rev 04(2011): U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Directives

# **SECTION 1: Product & Company Identification**

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#### **Product Identifier**

Trade Name: XT-2000 Orange Oil Plus

Application of the substance/the preparation: EPA-Registered Structural Pesticide

**Details of the Safety Data Sheet Supplier** 

Manufacturer/Supplier: XT-2000, Inc., 10054 Prospect Avenue, Suite P, Santee, CA 92071

www.xt2000.com

866-870-8485 or 619-542-8469 for product information

For Spill, Leak or Fire Emergency, call ProPharma 800-983-4711

For Medical Emergency, call ProPharma 800-983-4711

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Moderate Eye Irritant, Category 2B

### **SECTION 2: Hazards Identification**

1. GHS Classification of the Substance: Flammable Liquid, Category 3

# **Classification System**



Health 2
Fire 3
Reactivity 0

NFPA ratings (scale 0-4) Health = 2

Fire = 3 Reactivity = 0

HMIS Ratings (scale 0-4)

Health = 2 Fire = 3 Reactivity = 0

Other Hazards: Results of PBT and vPvBT - N/A

### 2. GHS Label Elements

a. The pictogram is



### b. The signal word is Warning

### c. Hazard Statements

H226: Flammable liquid and vapor. H303: May be harmful if swallowed.

H313: May be harmful in contact with skin.

H317: Prolonged or repeated skin contact may cause an allergic skin reaction in some individuals.

H333: May be harmful if liquid is inhaled.

H335: May cause respiratory irritation if vapors are inhaled in abnormally high concentrations for prolonged periods.

### d. General Precautionary Statements

P101: If medical advice is needed, have product container, label or SDS available.

P102: Keep out of reach of children, P103: Read label directions before use

### e. Prevention Precautionary Statements

P234: Store only in original container.

P280 Wear protective gloves/protective clothing/eye protection.

## f. Response Precautionary Statements

P301: If swallowed, call a poison control center or a doctor immediately for treatment advice. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

P302: If on skin, remove any contaminated clothing. Rinse affected area with soap and plenty of water. Call poison control center or doctor for treatment advice.

P304: If inhaled, Move 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.

P305: If in eyes, Hold eye open and rinse slowly and gently with water for 15-20 minutes.

P338: Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

## g. Storage Precautionary Statements

P401: Store in original container in a cool, dry area.

### h. Disposal Precautionary Statements

P501: Dispose of wastes resulting from the use of this product onsite or at an approved waste disposal facility.

P502: Do not reuse or refill the original product container. Triple rinse (or equivalent), puncture and offer for recycling or dispose of in a sanitary landfill or by other approved state or local procedures.

### **Emergency Overview: CAUTION: Possible Eye and Skin Irritant**

This product may present a slight hazard to humans as an eye irritant. It can be a skin irritant in case of prolonged exposure to humans or from transient exposure to humans who are sensitive or allergic to the ingredients contained in this product.

Appearance/Odor: Thin, solvent-like, water-insoluble, colorless liquid with a citrus odor.

**Skin:** May cause irritation in sensitive individuals.

**Inhalation:** May cause respiratory tract irritation. Because this material is not a gas, inhalation is not expected from accidental exposure or exposure when applied as directed.

**Eye:** May cause irritation.

**Ingestion:** May cause stomach distress.

Target Organs: Skin, eyes, respiratory and digestive system

**Signs and Symptoms of Over-exposure:** Symptoms of skin overexposure may include itching, redness, edema, temporary dying of skin, and dermatitis. Accidental ingestion may cause stomach distress, nausea, vomiting or diarrhea. Accidental inhalation may cause coughing, labored breathing or other respiratory distress.

# SECTION 3: Composition/Information on Ingredients

 Component d-Limonene
 CAS # 138-86-3
 % by Wt. 95 minimum

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# SECTION 4: First Aid Measures

Have the product container or label and/or SDS with you when calling a poison control center or doctor or going for treatment.

# **Description of first aid measures**

- General information: Immediately remove any clothing soaked with product.
- After inhalation: Remove person to fresh air. In case of unconsciousness, stabilize patient for transportation by placing on side position to prevent inhalation of any vomitus. If person is not breathing, call 911. Give artificial respiration by mouth-to-mouth if possible.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Remove contact lenses, if worn when eye contact occurs. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
   No further relevant information available.

Note to Physician: Treat symptomatically.

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# SECTION 5: Fire Fighting Measures

Flammability Classification (29 CFR 1910.1200): Class II Combustible Liquid

**General Hazard:** Fire hazard.

**Extinguishing Media:** Carbon dioxide, foam or dry chemical. **Caution:** Carbon dioxide will displace air in confined spaces and may create an oxygen deficient atmosphere. Water is an unsuitable extinguishing agent.

### **SECTION 6: Accidental Release Measures**

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**General:** Keep unnecessary personnel away from large spill or leak. Do not touch or walk through spilled material without equipment specified in Sections 7 and 8. Do not handle spilled material unless wearing appropriate protective gloves and clothing.

**Land Spills:** Absorb spills with non-reactive absorbent and place in suitable covered and labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services for advice on handling and disposal of large spills.

Water Spills: This product may cause localized contamination of surrounding waters if runoff is not preventable and quantity of spill is large. Spill in local waterways may cause damage to fish and other aquatic life. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge.

## **SECTION 7: Handling and Storage**

**Storage:** Product is packaged in plastic containers in temperature-controlled environment at less than 100°F. Prolonged storage at elevated temperatures above 110°F should be avoided but should not cause performance loss or present any specific hazard. Store containers upright and closed. Do not store where children or animals may gain access.

**Handling:** No special precautions are needed. Wear rubber gloves/protective clothing/eye protection when cleaning up spills. Absorb small spills (less than a gallon or 2) with rags. Since soaked rags may spontaneously combust, place in appropriate disposal container. Dike large spills (5 gallons or more) to prevent runoff. Absorb with dirt or suitable inert absorbent and dispose in closed containers.

Other Precautions: None special

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# SECTION 8: Exposure Controls/Personal Protection

General Protective and Hygiene Measures: Wear protective gloves/protective clothing/eye protection/face protection. Wash hands during breaks and at the end of handling the material. Immediately remove any contaminated clothing

Application Measures: Apply as directed on product label.

Eye and Face Protection: Safety glasses with side-shields or goggles

Hand Protection: Wear protective gloves

**Respiratory Protection:** No respiratory protection required when used according to label directions. Very large spills (larger than 5 gallons) that occur in a closed environment at high ambient

temperatures would not pose any specific hazard. **Occupational Exposure Limits:** Not applicable.

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# **SECTION 9: Physical and Chemical Properties**

Form: Liquid Color: Colorless Odor: Citrus

Odor Threshold: Not determined pH at 20°C (68°F): 4.5-5.0 Change in Condition

Boiling Point: 349°F (176°C)

Melting Point:  $-140^{\circ}$ F ( $-96^{\circ}$ C). Thickens at  $-180^{\circ}$ F ( $-78^{\circ}$ C)

Flash Point: 115°F (46°C) Flammability: Flammable Ignition Temperature

Decomposition Temperature: Not determined. Auto Ignition Temperature: 458°F (237°C)

Danger of Explosion: Product does not present an explosion hazard.

Explosion Limits Lower: N/A Upper: N/A

Specific Gravity: 0.840 to 0.850 @  $77^{\circ}F$  ( $25^{\circ}C$ ) Vapor Pressure at  $20^{\circ}C$  ( $68^{\circ}F$ ): less than 2 mm Hg

Density at 20°C (68°F): 7.23 lb/gallon

Relative Density: 0.842 Vapor Density: 4.70

Evaporation Rate: 0.2 (BuAc=1) Solubility in Water: Insoluble

Partition Coefficient (n-Octanol/Water): Not determined

Viscosity

Dynamic: Not determined Kinematic: Not determined

Solvent Content

Organic Solvents: greater than 99.5%

Water: less than 0.1%

Solids Content: Less than 0.1%

# SECTION 10: Stability and Reactivity

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**Reactivity:** No unusual reactivity

**Stability:** Stable under normal conditions

Possibility of Hazardous Reactions: No hazardous reactions known

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**Conditions to Avoid:** No specific conditions to avoid **Incompatible Materials:** Oxidizing agents and bases

Hazardous Decomposition Products: When combusted, emits toxic fumes

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# **SECTION 11: Toxicological Information**

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**Ingestion (Acute Oral Toxicity):** LD<sub>50</sub>>5 g/kg

**Skin (Acute Dermal Toxicity):** LD<sub>50</sub>>5 g/kg. Irritant for skin and mucous membranes

Primary Skin Irritation Index: Moderate in guinea pigs; low in rabbits

Eye: Irritant

**Inhalation:** May cause irritation of nose, throat and respiratory tract

Carcinogenicity: Not classified as a carcinogen by OSHA, IARC, ACGIH or NTP.

**Reproductive Toxicity:** Does not contain known reproductive toxins. **Developmental Toxicity:** Does not contain known developmental toxins.

Other: No classification data on carcinogenic properties of this material is available from the EPA,

IARC,NTP,OSHA or ACGIH

# **SECTION 12: Ecological Information**

### **Ecotoxicity**

Plants: Not available

Fish: LC50(Rainbow trout, 94 hour) = 35.00mg/L. LC50 (Fathead minnow, 96 hour) = 0.61-0.79mg/L.

EC50 (Daphnia pulex, 48 hour) = 69.60mg/L

**Persistence/Degradation:** This product is readily biodegradable.

Soil Mobility: Orange terpenes volatilize rapidly.

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# **SECTION 13: Disposal Considerations**

### Do not contaminate water, food or feed by storage or disposal.

**Storage:** Store containers in a cool, dry place (less than 110°F). Do not store near heat or open flame. **Product Disposal:** Wastes from the use of this product may be disposed of on site or at an approved waste facility.

**Container Disposal:** Plastic container: Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill. May be incinerated if allowed by state and local authorities or by burning. If burned, avoid exposure to smoke.

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### **SECTION 14: Transportation Information**

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**US DOT Shipping Classification:** (49CFR 172.101): Consumer Commodity **DOT Hazardous Substances Classification:** (49CFR 172.101): ORM-D

	14.1 UN	14.2 UN Proper	14.3	14.4	14.5
	Number	Shipping Name	Hazard Class(es)	Packing Group	Environmental Hazards
US DOT	UN2319	Terpene Hydrocarbons, N.O.S. Liquids with a flash point of 100°F or greater can be classified as combustible			
		liquids for ground transport. See 49CFR173.150-(f)	3	III	No
Canadian TDG	UN2319	Terpene hydrocarbon, N.O.S. Liquids with a flash point of 100°F or higher in small means of containment are not regulated. See 1.33.	3	III	No
EU	UN2319	Terpene hydrocarbons, N.O.S.	3	III	Yes
ADR/RID	UN2319	Terpene Hydrocarbons, N.O.S.			

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IMDG	UN2319	Terpene Hydrocarbons,	3	Ш	Marine Pollutant
		n.o.s.			
IATA/ICAO	UN2319	Terpene Hydrocarbon, n.o.s.	3	III	No

Label placard for ground (ADR/DOT), rail (RID), sea (IMDG) & air (IATA/ICAO) is 3 Flammable Liquid

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# **SECTION 15: Regulatory Information**

EPA Registration Number: 71986-2

USFDA: Listed as GRAS in 21 CFR Section 182.20 and 182.60

**EPA TCSA Inventory:** All components are listed on the TSCA inventory.

California Prop 65: This product is not on the State of California Prop 65 list of toxic substances.

Stability: Stable.

Conditions to Avoid: Keep away from heat, sparks and open flame.

Incompatible Materials: Strong oxidizing agents and strong acids, including acidic clays, peroxides,

halogens, vinyl chloride and iodine pentafluoride.

**Hazardous Decomposition Products:** Oxides of orange terpenes, which can result from improper storage and handling, are known to cause skin sensitization.

**Possibility of Hazardous Reactions:** To prevent oxidation, avoid long-term exposure to air. If storing partially filled containers, fill headspace with an inert gas such as nitrogen or carbon dioxide.

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### **SECTION 16: Other Information**

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d-Limonene is the major component of orange terpenes. It is a by-product of citrus fruit and entirely of natural origin. It does NOT contain lead, cadmium, mercury or hexavalent chromium or come in contact with these chemicals. It is an essential oil produced by steam/vacuum distillation.

d-Limonene is packaged in containers that do NOT contain lead, cadmium, mercury, or hexavalent chromium. d-Limonene does NOT contain and is NOT manufactured with any of the Class I or II ozone-depleting substances listed under the United States Clean Air Act of 1990.

Date of Preparation: October 10, 2017

**PACKAGING:** XT-2000 Orange Oil Plus is packaged in one gallon fluorinated polyethylene containers.

### **Disclaimer of Liability**

The information contained herein is, to the best of the originator or manufacturer's current knowledge and belief and is accurate and reliable as of the date of preparation of this document. This product is an EPA-registered product intended for use by trained and licensed pesticide applicators. The purpose of this SDS is to provide information to manufacturing, warehouse transport and emergency response personnel concerned with the packaging, handling, shipping, storing or cleanup of bulk or relatively large spilled quantities of this product. Spillage of small quantities of this product as packaged are not expected to present a serious environmental hazard. Alteration of its composition or characteristics by concentration, evaporation, mixing with other substances, or other misuse is prohibited by federal law and may present hazards not specifically addressed herein which are beyond the control of the manufacturer or distributor and are disavowed. Upon shipment of this product from manufacturer's facility, manufacturer shall not be liable for any damage or injury resulting from accidental discharge, abnormal storage conditions, or from any hazards resulting from unsafe or unlawful practices.

These data are offered in good faith as typical values and not as product specifications. No warranty, either express or implied, is hereby made. The data and recommended industrial hygiene and safe handling procedures are believed to be generally applicable and are obtained from available scientific and safety sources. This product should be transported and stored following precautions declared on this SDS. This SDS is to be used only for this product. Upon shipment of this product from manufacturer's warehouse utilizing transport not owned or operated by manufacturer, the conditions of handling, storage, use and disposal of this product

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are beyond control of manufacturer and may be beyond manufacturer's knowledge. For this and other reasons, manufacturer assumes no responsibility and expressly disclaims liability for loss, damage or expense arising out of, or in any way connected with, handling, storage, use or disposal of the product.

#### **Abbreviations**

ACIGH – American Conference of Governmental Industrial Hygienists

AIHA – American Industrial Hygiene Association

IATA/CAO – International Air transport Association/Civil Aviation Organization

ADR – European agreement concerning the international transport of dangerous goods

Canadian TDG – Canadian Transport of Dangerous Goods

DOT - United States Department of Transportation

EPA – United States Environmental Protection Agency

EU - European Union

GHS - Globally Harmonized System

GRAS - Generally Recognized as Safe

HCS - Hazard Communication Standard

HMIS - Hazardous Materials Information System

IARC – International Agency for Research on Cancer

IMDG – International Maritime Transport of Dangerous Goods

SDS – Safety Data Sheet (formerly Material Safety Data Sheet)

MSHA – United States Mine Safety and Health Administration

FIFRA - Federal Insecticide, Fungicide, Rodenticide Act

NIOSH - National Institute for Occupational Safety and Health

NFPA - National Fire Protection Association

NTP - National Toxicology Program

OSHA – United States Occupational Health and Safety Administration

PEL – Permissible Exposure Limit

SDS: XT-2000 Orange Oil Plus

RID – Regulations concerning the international railway transport of dangerous goods

TSCA - Toxic Substances Control Act

PBT Assessment – Persistent Bioaccumulative Toxic Assessment

USFDA – Unites States Food and Drug Administration

vPvBT Assessment – Very Persistent Very Bioaccumulative Toxic Assessment