

Oxy-Force Orange Concentrate

SAFETY DATA SHEET

SECTION 1: Identification

1.1 Product identifier

Product name Oxy-Force Orange Concentrate

1.4 Supplier's details

Name HOSPECO
Address 10966 Industrial Parkway
Bolivar OH 44612

Telephone 330-874-1017

1.5 Emergency phone number(s)

US, Canada: 800-255-3924. International: +01-813-248-0585

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1
- Oxidizing liquids, Cat. 3

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H272 May intensify fire; oxidizer
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H320 Causes eye irritation

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P220 Keep/Store away from clothing/.../combustible materials.
P221 Take any precaution to avoid mixing with combustibles/...

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P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash exposed areas thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Nonionic Surfactant

Concentration > 5 - < 15 % (weight)

- Hazardous to the aquatic environment, short-term (acute), Cat. 2
- Hazardous to the aquatic environment, long-term (chronic), Cat. 2
- Eye damage/irritation, Cat. 1

H318	Causes serious eye damage
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

2. D-Limonene

Concentration > 0 - < 5 % (weight)

EC no. 227-813-5
CAS no. 5989-27-5

- Aspiration hazard, Cat. 1
- Flammable liquids, Cat. 3
- Hazardous to the aquatic environment - acute hazard, Cat. 1
- Hazardous to the aquatic environment - long-term hazard, Cat. 1
- Sensitization, skin, Cat. 1
- Skin corrosion/irritation, Cat. 2

H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

3. Hydrogen Peroxide Solution

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Concentration > 5 - < 15 % (weight)

- Hazardous to the aquatic environment, short-term (acute), Cat. 2
- Acute toxicity, oral, Cat. 4
- Oxidizing liquids, Cat. 3
- Eye damage/irritation, Cat. 1
- Hazardous to the aquatic environment, long-term (chronic), Cat. 4

H272 May intensify fire; oxidizer
H302 Harmful if swallowed
H318 Causes serious eye damage
H401 Toxic to aquatic life
H413 May cause long lasting harmful effects to aquatic life

4. Sodium hydroxide

Concentration > 0 - < 5 % (weight)
EC no. 215-185-5
CAS no. 1310-73-2
Index no. 011-002-00-6

- Skin corrosion/irritation, Cat. 1A

H314 Causes severe skin burns and eye damage

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	If breathed in, move person into fresh air. Consult a physician after significant exposure. If breathed in, move person into fresh air.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash the skin immediately with soap and water.
In case of eye contact	Rinse with plenty of water.
If swallowed	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
Ensure adequate ventilation.

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6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. D-Limonene (CAS: 5989-27-5 EC: 227-813-5)

TLV® (Inhalation): 20 ppm (ACGIH)

2. Sodium hydroxide (CAS: 1310-73-2)

PEL (Inhalation): 2 mg/m³; USA (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): (C) 2 mg/m³; USA (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): (C) 2 mg/m³; USA (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

TLV® (Inhalation): (C) 2 mg/m³; USA (ACGIH)

OSHA Annotated Table Z-1, www.osha.gov

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Tightly fitting safety goggles

Skin protection

Glove material: Neoprene

Respiratory protection

In the case of vapor or aerosol formation use a respirator with an approved filter.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Pale yellow liquid
Odor	Mild Citrus
Odor threshold	No data available
pH	5.0-7.0
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	>200F
Evaporation rate	No data available
Flammability (solid, gas)	Not flammable

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Upper/lower flammability limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	1.0
Solubility(ies)	Water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	As water
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 10: Stability and reactivity

10.2 Chemical stability

Stable

10.5 Incompatible materials

Strong oxidizing agents

Sodium hydroxide : Caustic soda reacts with all the mineral acids to form the corresponding salts. It also reacts with weak-acid gases, such as hydrogen sulfide, sulfur dioxide, and carbon dioxide. Caustic soda reacts with amphoteric metals (Al, Zn, Sn) and their oxides to form complex anions such as AlO_2^- , ZnO_2^{2-} , SnO_2^{2-} , and H_2 (or H_2O with oxides). All organic acids also react with sodium hydroxide to form soluble salts. Another common reaction of caustic soda is dehydrochlorination.

10.6 Hazardous decomposition products

Berol 226 SA: Halogenated compounds, Hydrogen chloride

Sodium hydroxide : Sodium oxides

SECTION 11: Toxicological information

Information on toxicological effects

Skin corrosion/irritation

May cause minor irritation under prolonged contact

Serious eye damage/irritation

May cause minor irritation under prolonged contact

SECTION 12: Ecological information

Persistence and degradability

Biodegradable

SECTION 13: Disposal considerations

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Disposal of the product

Dispose of contents/container in accordance with local regulation.

Disposal of contaminated packaging

Dispose of contents/container in accordance with local regulation.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components

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

SARA 313 Components

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.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

D-Limonene

Pennsylvania Right To Know Components

D-Limonene

New Jersey Right To Know Components

D-Limonene

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts Right To Know Components

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

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New Jersey Right To Know Components

Common name: SODIUM HYDROXIDE
CAS number: 1310-73-2

Pennsylvania Right To Know Components

Chemical name: Sodium hydroxide
CAS number: 1310-73-2

SARA 313 Components

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.

SARA 311/312 Hazards

Acute Health Hazard

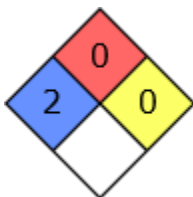
15.2 Chemical Safety Assessment

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.

HMIS Rating

Oxy-Force Orange Concentrate	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

NFPA Rating



SECTION 16: Other information