

# SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078019530

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078019555 078689948

# SAFETY DATA SHEET

X-O CORPORATION

ISSUED 07-15-2015

## 1. Identification

### Product Identifiers

**XOXR** X-O Odor Neutralizer (Ready to Use); **XOPR** X-O Plus Odor Neutralizer and Cleaner; **XOXC** Concentrated X-O Odor Neutralizer; **XOPC** Concentrated X-O Plus Odor Neutralizer and Cleaner

### Product Code(s)

XOXR; XOPR; XOXC; XOPC

### Recommended use

Odor control and cleaning

### Recommended restrictions

None known

### Manufacturer Company name

X-O Corporation, 8311 Eastpoint Drive, Suite 100, Dallas, Texas 75227 United States of America

### Telephone

+1 214 388 5590 FAX +1 214 388 7140

### E-mail

Not available

### Emergency phone number

+1 800 442 9696

## 2. Hazard(s) identification

**Physical hazards** Not classified

**Health hazards** Not classified

**Environmental hazards** Not classified

**OSHA hazards** Not classified

### Label elements

**Hazard symbol** None

**Signal word** None

**Hazard Statement** None

### Precautionary statement

**Prevention** None

**Response** In case of fire – non flammable – use media proper to primary cause of fire.

**Storage** Store in a dry place

**Disposal** Dispose contents/container in accordance with local/regional/national/international regulations

### Hazard(s) not otherwise classified (HNOC)

None known

### Supplemental information

None

## 3. Composition/information on ingredients

### Substances

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS number</u>	<u>%</u>
H2S	Water	7732-18-5	XOXR 97.90
			XOPR 98.90
			XOXC 95.80
			XOPC 92.28
Alkyl polyglycoside	Surfactant 50% Water 50%	110615-47-9 7732-18-5	XOXR 1.00
			XOPR .50
			XOXC 2.00
			XOPC 3.50
Proprietary essential oil compound <b>HS</b> the specific chemical identity and/or percentage of Composition has been withheld as a trade secret.			XOXR 1.00
			XOPR .50
			XOXC 2.00
			XOPC 3.50
Cetylpyridinium chloride	Quaternary ammonium compound	6004-24-6	XOXR .10
			XOPR .10
			XOXC .20
			XOPC .72

## 4. First-aid measures

<b>Inhalation</b>	No effects expected. If breathing is difficult remove to fresh air and look for primary cause of the breathing problem, keep in a rest position comfortable for breathing. Call a physician if symptoms develop or persist
<b>Skin contact</b>	No effects of exposure expected
<b>Eye Contact</b>	Rinse with water. Get medical attention if irritation develops or persists.
<b>Ingestion</b>	Rinse mouth with water.
<b>Most important Symptoms, acute and delayed</b>	Direct contact with eyes and ingestion may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically.
<b>General information</b>	None

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Non-flammable – use extinguishing media suited to the source of the fire.
<b>Unsuitable extinguishing media</b>	Non-flammable - use extinguishing media suited to the source of the fire.
<b>Specific hazards arising from the chemical</b>	Non-hazardous
<b>Special protective equipment and precautions for fire fighters</b>	None except that necessary for the primary cause of the fire.
<b>Fire fighting equipment/instructions</b>	Those necessary for the primary cause of the fire.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Non-combustible liquid.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	None necessary.
<b>Methods and materials for containment and clean up</b>	Mop bucket
<b>Environmental procedures</b>	No procedures specified.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Observe standard safety handling precautions. Non-toxic.
<b>Conditions for safe storage</b>	Indoor storage in a dry place.
<b>Including and incompatibilities</b>	

#### 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	No exposure limits for ingredients.
<b>Biological limit values</b>	No biological exposure limits noted for ingredients.
<b>Appropriate engineering controls</b>	No engineering controls noted.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear goggles
<b>Skin protection</b>	No protection noted.
<b>Thermal hazard</b>	None noted.
<b>General hygiene Considerations</b>	Observe good personal hygiene.

#### 9. Physical and chemical properties

##### Appearance

<b>Physical state</b>	Liquid
<b>Form</b>	Liquid
<b>Color</b>	Clear to cloudy
<b>Odor</b>	Floral
<b>Odor threshold</b>	Not available
<b>pH</b>	Mid range
<b>Melting point/freezing point</b>	32.0 F
<b>Initial boiling point and Boiling range</b>	Not available
<b>Flash point</b>	Not available
<b>Evaporative rate</b>	Not available
<b>Flammability (solid gas)</b>	Non-flammable
<b>Upper/flammability or exposure limits</b>	
<b>Flammability limit-lower (%)</b>	Not available
<b>Flammability limit-upper (%)</b>	Not available
<b>Exposure limit-lower (%)</b>	Not available
<b>Exposure limit-upper (%)</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Relative density</b>	Not available
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not available
<b>Other information</b>	
<b>Molecular formula</b>	Not available
<b>Molecular weight</b>	Not available
<b>Specific gravity</b>	Not available
<b>VOC (weight)</b>	Not available
<b>10. Stability and reactivity</b>	
<b>Reactivity</b>	Stable and non-reactive under normal conditions of use, storage and transport
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous Reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Avoid deodorizing enclosed environment where flammable/explosive (natural gas, LPG methane, petroleum fuels) toxic and carcinogenic substances are, or could be present. Do not use X-O products with toxic or dangerous substances, where the odor of such substances is the only warning of their presence.
<b>Incompatible material</b>	Strong oxidizing agents – enzymes –sodium hypochlorite (bleach)
<b>Hazardous decomposition Products</b>	No hazardous decomposition products are known
<b>11. Toxicological information</b>	
<b>Information or likely routes or exposure</b>	
<b>Inhalation</b>	No adverse effects due to inhalation are expected
<b>Skin contact</b>	No adverse effects due to skin contact are expected
<b>Eye contact</b>	No adverse effects due to eye contact are expected
<b>Ingestion</b>	No adverse effects due to ingestion are expected
<b>Symptoms related to the Physical, chemical and</b>	

## Toxicological characteristics

### Information on toxicological effects

<b>Acute toxicity</b>	Non-toxic
<b>Skin corrosion/irritation</b>	No adverse effects
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensation</b>	Not available
<b>Skin sensitization</b>	Not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	Not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA
<b>OSHA Specifically Regulated Substances (29 CFR 1910, 1001-1050)</b>	
Not listed	
<b>Reproductive toxicity</b>	Not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity -single exposure</b>	Not classified.
<b>Specific target organ toxicity -repeated exposure</b>	Not classified.
<b>Aspiration Hazard</b>	Not available

## 12. Ecological information

<b>Ecotoxicity</b>	Not classified as environmentally hazardous.
<b>Persistence and degradability</b>	Biodegradable
<b>Bioaccumulative potential</b>	Not expected
<b>Mobility in soil</b>	Mobile
<b>Other adverse effects</b>	No adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected.

## 13. Disposal considerations

<b>Disposal instructions</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling.

## 14. Transport information

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not available

Page 5 MSD XOXR, XOPR, XOXC, XOPC ISSUED 07-15-2015

## 15. Regulatory Information

<b>US Federal regulations</b>	Not regulated
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	Not regulated
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>	Not listed

**SARA 304 Emergency release notification**

Not regulated

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed

**Superfund Amendments and Regulated Substances Act of 1986 (SARA)**

**Hazard categories**      Immediate Hazard – No  
    Delayed Hazard – No  
    Fire Hazard – No  
    Pressure Hazard – No  
    Reactivity Hazard – No

**SARA 302 Extremely hazardous substance**

Not listed

**SARA 311/312 Hazardous chemical**

Not listed

**SARA 313 (TRI reporting)**

Not regulated

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated

**Safe Drinking Water Act (SDWA)**      Not regulated**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed

**US. Massachusetts RTK – Substance List**

Not regulated

**US. New Jersey Worker and Community Right-to-know Act**

Not listed

**US. Pennsylvania Worker and Community Right-to-know Law**

Not listed

**US. Rhode Island RTK**

Not regulated

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) These products are not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

<b>Country(s) or regions</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances (NDSL)	No
China	Inventory of Existing Chemical Substances in China	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Page 6 MSD XOXR, XOPR, XOXC, XOPC ISSUED 07-15-2015

Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all the components of this product comply with the inventory requirements administered by the governing country(s)  
 A "No" indicates that one or more of the components of the product are not listed or exempt for listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

<b>Issue date</b>	07-15-2015
<b>Version #</b>	01
<b>HMIS ratings</b>	Health 0 Flammability 0 Physical Hazard 0 Personal protection 0
<b>Disclaimer</b>	The information in the sheet was written based on the best knowledge and experience currently available.
<b>Revision Information</b>	This document has undergone significant changes and should be reviewed in its entirety.

# SAFETY DATA SHEET

X-O CORPORATION

ISSUED 07-15-2015

## 1. Identification

### Product Identifiers

**XOXR** X-O Odor Neutralizer (Ready to Use); **XOPR** X-O Plus Odor Neutralizer and Cleaner; **XOXC** Concentrated X-O Odor Neutralizer; **XOPC** Concentrated X-O Plus Odor Neutralizer and Cleaner

### Product Code(s)

XOXR; XOPR; XOXC; XOPC

### Recommended use

Odor control and cleaning

### Recommended restrictions

None known

### Manufacturer Company name

X-O Corporation, 8311 Eastpoint Drive, Suite 100, Dallas, Texas 75227 United States of America

### Telephone

+1 214 388 5590 FAX +1 214 388 7140

### E-mail

Not available

### Emergency phone number

+1 800 442 9696

## 2. Hazard(s) identification

**Physical hazards** Not classified

**Health hazards** Not classified

**Environmental hazards** Not classified

**OSHA hazards** Not classified

### Label elements

**Hazard symbol** None

**Signal word** None

**Hazard Statement** None

### Precautionary statement

**Prevention** None

**Response** In case of fire – non flammable – use media proper to primary cause of fire.

**Storage** Store in a dry place

**Disposal** Dispose contents/container in accordance with local/regional/national/international regulations

### Hazard(s) not otherwise

**classified (HNOC)** None known

**Supplemental information** None

## 3. Composition/information on ingredients

### Substances

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS number</u>	<u>_____</u>	<u>%</u>
H2S	Water	7732-18-5	XOXR	97.90
			XOPR	98.90
			XOXC	95.80
			XOPC	92.28
Alkyl polyglycoside	Surfactant 50% Water 50%	110615-47-9 7732-18-5	XOXR	1.00
			XOPR	.50
			XOXC	2.00
			XOPC	3.50
Proprietary essential oil compound <b>HS</b> the specific chemical identity and/or percentage of Composition has been withheld as a trade secret.			XOXR	1.00
			XOPR	.50
			XOXC	2.00
			XOPC	3.50
Cetylpyridinium chloride	Quaternary ammonium compound	6004-24-6	XOXR	.10
			XOPR	.10
			XOXC	.20
			XOPC	.72

## 4. First-aid measures



<b>Inhalation</b>	No effects expected. If breathing is difficult remove to fresh air and look for primary cause of the breathing problem, keep in a rest position comfortable for breathing. Call a physician if symptoms develop or persist
<b>Skin contact</b>	No effects of exposure expected
<b>Eye Contact</b>	Rinse with water. Get medical attention if irritation develops or persists.
<b>Ingestion</b>	Rinse mouth with water.
<b>Most important Symptoms, acute and delayed</b>	Direct contact with eyes and ingestion may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically.
<b>General information</b>	None

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Non-flammable – use extinguishing media suited to the source of the fire.
<b>Unsuitable extinguishing media</b>	Non-flammable - use extinguishing media suited to the source of the fire.
<b>Specific hazards arising from the chemical</b>	Non-hazardous
<b>Special protective equipment and precautions for fire fighters</b>	None except that necessary for the primary cause of the fire.
<b>Fire fighting equipment/instructions</b>	Those necessary for the primary cause of the fire.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Non-combustible liquid.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	None necessary.
<b>Methods and materials for containment and clean up</b>	Mop bucket
<b>Environmental procedures</b>	No procedures specified.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Observe standard safety handling precautions. Non-toxic.
<b>Conditions for safe storage</b>	Indoor storage in a dry place.
<b>Including and incompatibilities</b>	

#### 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	No exposure limits for ingredients.
<b>Biological limit values</b>	No biological exposure limits noted for ingredients.
<b>Appropriate engineering controls</b>	No engineering controls noted.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear goggles
<b>Skin protection</b>	No protection noted.
<b>Thermal hazard</b>	None noted.
<b>General hygiene</b>	
<b>Considerations</b>	Observe good personal hygiene.

#### 9. Physical and chemical properties

##### Appearance

<b>Physical state</b>	Liquid
<b>Form</b>	Liquid
<b>Color</b>	Clear to cloudy
<b>Odor</b>	Floral
<b>Odor threshold</b>	Not available
<b>pH</b>	Mid range
<b>Melting point/freezing point</b>	32.0 F
<b>Initial boiling point and Boiling range</b>	Not available
<b>Flash point</b>	Not available
<b>Evaporative rate</b>	Not available
<b>Flammability (solid gas)</b>	Non-flammable
<b>Upper/flammability or exposure limits</b>	
<b>Flammability limit-lower (%)</b>	Not available
<b>Flammability limit-upper (%)</b>	Not available
<b>Exposure limit-lower (%)</b>	Not available
<b>Exposure limit-upper (%)</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Relative density</b>	Not available
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not available
<b>Other information</b>	
<b>Molecular formula</b>	Not available
<b>Molecular weight</b>	Not available
<b>Specific gravity</b>	Not available
<b>VOC (weight)</b>	Not available
<b>10. Stability and reactivity</b>	
<b>Reactivity</b>	Stable and non-reactive under normal conditions of use, storage and transport
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous Reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Avoid deodorizing enclosed environment where flammable/explosive (natural gas, LPG methane, petroleum fuels) toxic and carcinogenic substances are, or could be present. Do not use X-O products with toxic or dangerous substances, where the odor of such substances is the only warning of their presence.
<b>Incompatible material</b>	Strong oxidizing agents – enzymes –sodium hypochlorite (bleach)
<b>Hazardous decomposition Products</b>	No hazardous decomposition products are known
<b>11. Toxicological information</b>	
<b>Information or likely routes or exposure</b>	
<b>Inhalation</b>	No adverse effects due to inhalation are expected
<b>Skin contact</b>	No adverse effects due to skin contact are expected
<b>Eye contact</b>	No adverse effects due to eye contact are expected
<b>Ingestion</b>	No adverse effects due to ingestion are expected
<b>Symptoms related to the Physical, chemical and</b>	

## Toxicological characteristics

### Information on toxicological effects

<b>Acute toxicity</b>	Non-toxic
<b>Skin corrosion/irritation</b>	No adverse effects
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensation</b>	Not available
<b>Skin sensitization</b>	Not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	Not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA
<b>OSHA Specifically Regulated Substances (29 CFR 1910, 1001-1050)</b>	
Not listed	
<b>Reproductive toxicity</b>	Not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity -single exposure</b>	Not classified.
<b>Specific target organ toxicity -repeated exposure</b>	Not classified.
<b>Aspiration Hazard</b>	Not available

## 12. Ecological information

<b>Ecotoxicity</b>	Not classified as environmentally hazardous.
<b>Persistence and degradability</b>	Biodegradable
<b>Bioaccumulative potential</b>	Not expected
<b>Mobility in soil</b>	Mobile
<b>Other adverse effects</b>	No adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected.

## 13. Disposal considerations

<b>Disposal instructions</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling.

## 14. Transport information

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not available

Page 5 MSD XOXR, XOPR, XOXC, XOPC ISSUED 07-15-2015

## 15. Regulatory Information

<b>US Federal regulations</b>	Not regulated
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	Not regulated
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>	Not listed

**SARA 304 Emergency release notification**

Not regulated

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed

**Superfund Amendments and Regulated Substances Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard – No  
 Delayed Hazard – No  
 Fire Hazard – No  
 Pressure Hazard – No  
 Reactivity Hazard – No

**SARA 302 Extremely hazardous substance**

Not listed

**SARA 311/312 Hazardous chemical**

Not listed

**SARA 313 (TRI reporting)**

Not regulated

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated

**Safe Drinking Water Act (SDWA)** Not regulated**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed

**US. Massachusetts RTK – Substance List**

Not regulated

**US. New Jersey Worker and Community Right-to-know Act**

Not listed

**US. Pennsylvania Worker and Community Right-to-know Law**

Not listed

**US. Rhode Island RTK**

Not regulated

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) These products are not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

Country(s) or regions	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances (NDSL)	No
China	Inventory of Existing Chemical Substances in China	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Page 6 MSD XOXR, XOPR, XOXC, XOPC ISSUED 07-15-2015

Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all the components of this product comply with the inventory requirements administered by the governing country(s)  
 A "No" indicates that one or more of the components of the product are not listed or exempt for listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

<b>Issue date</b>	07-15-2015
<b>Version #</b>	01
<b>HMIS ratings</b>	Health 0 Flammability 0 Physical Hazard 0 Personal protection 0
<b>Disclaimer</b>	The information in the sheet was written based on the best knowledge and experience currently available.
<b>Revision Information</b>	This document has undergone significant changes and should be reviewed in its entirety.

# MSDS XR

**X-O  
Odor Neutralizer  
(Ready-to-Use)**

**X-O Corporation  
8311 Eastpoint Dr., Suite 100  
Dallas, Texas 75227  
1-800-442-9696**

**MATERIAL SAFETY DATA SHEET**  
Reviewed—NO CHANGES Apr. 15, 2012

## Section 01 - Identification

MSDS #02 Review Date 04/09 X-O Odor Neutralizer Domestic Trade Names Same.

<b>Water</b> (CAS# 7732-18-5): <b>98.90%</b>	<b>Surfactant:</b> <b>0.50%</b> Alkyl polyglycoside (CAS# 110615-47-9): 50.00% Water (CAS# 7732-18-5): 50.00%
<b>Proprietary essential oils compound HS:</b> <b>0.50%</b> The specific chemical identities of the ingredients of this compound are considered by X-O Corporation to be trade secrets and are withheld in accordance with the provision of 1910.1200 of title 29 of the code of Federal Regulations	<b>Quaternary Ammonium Compound:</b> <b>0.10%</b> Cetylpyridinium Chloride (CAS# 6004-24-6)

## Section 2 - Physical & Health Hazard Ingredients - None Known

**Section 3 - Physical & Chemical Characteristics** Boiling Point: 100°C. Vapor Pressure: Not volatile. Vapor Density (air = 1) Not volatile. Water Solubility: Soluble Melting/Freezing Point: -10 degree C. Appearance: Milk like, white tinted. Color-opaque white. Viscosity: Less than 100-cps spindle 3; Specific Grav. (H2O = 1): 1; pH of Solution: Range 7; Odor: Floral Aromatic

**Section 4 - Physical Hazard Data** FlashPoint: None Flammable Limits: Non-Flammable. Fire Fighting Media: Use media proper to primary cause of fire. Special Fire Fighting Procedure: None known. Fire/Explosion Hazard: None known

**Section 5 - Reactivity Data** Stability: Stable. Hazardous Polymerization: Will not occur. Conditions to Avoid: None known. Incompatible Materials: Strong oxidizing or reducing agents. Hazardous Decomposition Products: None known

**Section 6 - Health Hazard Data** Acute Toxicity: (EPA, FIFRA, and OCED Guidelines 401, 403, 404 & 405).

**Oral Toxicity:** Toxicity category **IV** for oral LD 50. **Dermal Toxicity:** Toxicity category **IV** for skin effects. **Inhalation Toxicity:** Toxicity category **IV** for inhalation LC50. **Eye Irritations:** Maximum mean irritation score of 4.0/110.0 in unwashed eyes, classifying the product in toxicity category **III**.

EPA-FIFRA Irritation test toxicity ratings:

Toxicity Category	Signal Word	Indicators
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Toxicity Category	Signal Word	Indicators
I	Danger	Corrosive (irreversible destruction ocular tissue) or corneal involvement of irritation persisting for more than 21 days.
II	Warning	Corneal involvement of irritation clearing in 21 days or less.
III	Caution	Corneal involvement of irritation clearing in 7 days or less.
IV	Caution	Minimal effects clearing in less than 24 hours.

DOT Corrosive: No. Primary Route(s) of entry: Absorption/Contact

Signs & Symptoms of Exposure:

Symptoms of Ingestion: No effects of exposure expected.

Symptoms of Inhalation: No effects of exposure through spray application .

# MSDS XR

*Continued...*

Expected: minor reversible irritation of mucous membranes through heavy fog application.

Symptoms of Skin Contact: No effects of exposure expected.

Symptoms of Eye Contact: No effects of exposures expected in normal use.

## **Emergency First Aid Procedures:**

**First Aid for Ingestion:** General precautionary measures suggest giving several glasses of water. Do not give anything to an unconscious or convulsing person. In case of continued discomfort, consult your physician.

**First Aid for Inhalation:** Remove to fresh air. If breathing is difficult, look for primary cause of breathing problem. (X-O is nontoxic). Oxygen may be given, preferably with a physician's advice. If not breathing, give mouth-to-mouth artificial respiration. Get medical attention.

**First Aid for Skin Contact:** For all foreign materials, wash after exposure.

**First Aid for Eye Contact:** Immediately flush eyes copiously with water. If irritation persists, call a physician.

**Medical conditions aggravated by exposure:** No data found. Possible aggravation in chronic dermal and asthmatic conditions. Possible aggravation to chronic allergenics.

**Other Acute Toxicity:** None Known.

## **Section 07 - Occupational Control Procedures**

**Ventilation:** Use adequate ventilation where drums or tank wagons are being opened. **Local exhaust:** None should be needed. **Respiratory Protection:** In routine operation, none needed with good ventilation. Use NIOSH-approved respirator, if adequate ventilation cannot be provided. **Eye Protection:** Normal spray application - none needed. During fogging operations at dilution rate 32 to 1 or over - none required. **Skin Protection:** None required

## **Section 08 - Precautions during Storage and Use**

Store in a warm warehouse. Avoid storing below 32 degrees F or above 120 degrees F. Keep container sealed.

**Spill/Leak, Clean-up procedure:** Flush spill area with water (Dispose of liquid waste according to Federal, State, and local regulations).

**Other Precautions:** Avoid deodorizing enclosed environments where flammable/explosive (natural gas, LPG methane, petroleum fuels) toxic and carcinogenic substances are, or could be present. Do not use X-O Products with toxic or dangerous materials, where odor of such materials is the only warning of their presence.

## **Section 9 - Transportation Data**

DOT shipping name/hazard class: Not regulated.

Hazardous Ingredients(s): None

X-O Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of information herein except that such information is, to the best of our knowledge and belief, accurate as of the date indicated.

**By the standards of the EPA, FIFRA, OECD, DOT and the States of California and New Jersey, X-O Odor Neutralizers are considered Non-Toxic and Non-Hazardous.**

# SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION	
<b>Product Identifier</b>	<b>XOXR</b> RTU, X-O Odor Neutralizer <b>XOPR</b> RTU, X-O Plus Odor Neutralizer and Cleaner <b>XOXC</b> Concentrated, X-O Odor Neutralizer; <b>XOPC</b> Concentrated, X-O Plus Odor Neutralizer and Cleaner <b>XOUC</b> Ultra Concentrated, X-O Plus Odor Neutralizer and Cleaner
<b>Product Code(s)</b>	XOXR, XOPR, XOXC, XOPC, XOUC
<b>Recommended Use</b>	Odor control and cleaning
<b>Recommended Restrictions</b>	None known
<b>Manufacturer Company Name</b>	XO USA LLC, 8181 Eastpoint Dr., Suite 100, Dallas, Texas 75227, USA
<b>Telephone</b>	214.296.9577, 833.339.6872 (phone/fax)
<b>Email</b>	<a href="mailto:HelpDesk@xo-usa.com">HelpDesk@xo-usa.com</a>
<b>Emergency Phone Number(s)</b>	833.339.6872

SECTION 2 - HAZARD(S) IDENTIFICATION	
<b>Physical hazards</b>	Not classified
<b>Health hazards)</b>	Not classified
<b>Environmental hazards</b>	Not classified
<b>OSHA hazards</b>	Not classified
<b>Label elements</b>	
<b>Hazard symbol</b>	None
<b>Signal word</b>	None
<b>Hazard Statement</b>	None
<b>Precautionary statement</b>	
<b>Prevention</b>	None
<b>Response</b>	In case of fire – non-flammable – use media proper to primary cause of fire
<b>Storage</b>	Store in a dry place
<b>Disposal</b>	Dispose contents/container in accordance with local/regional/national/international regulations
<b>Hazard(s) not otherwise classified (HNOC)</b>	None Known
<b>Supplemental information</b>	None

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS				
Chemical Name	Common Name/Synonyms	CAS#		%
H2O	Water	7732-18-5	XOPR	98.90
			XOXR	97.90
			XOXC	95.90
			XOPC	92.28
			XOUC	82.40
Alkyl Polyglycoside	Surfactant 50% Water 50%	110615-47-9 7732-18-5	XOPR	0.50
			XOXR	1.00
			XOXC	2.00
			XOPC	3.50
			XOUC	8.00
Essential oil compound, specific chemical identity/concentration is proprietary			XOPR	0.50
			XOXR	1.00
			XOXC	2.00
			XOPC	3.50
			XOUC	8.00



# SAFETY DATA SHEET

Cetylpyridinium chloride	Quaternary ammonium compound	6004-24-6	<b>XOPR</b>	<b>0.10</b>
			<b>XOXR</b>	<b>0.10</b>
			<b>XOXC</b>	<b>0.10</b>
			<b>XOPC</b>	<b>0.72</b>
			<b>XOUC</b>	<b>1.60</b>

SECTION 4 – FIRST-AID MEASURES	
<b>Inhalation</b>	No effects expected. If breathing is difficult remove to fresh air and look for primary cause of the breathing problem, keep in a rest in a position comfortable for breathing. Call a physician if symptoms develop or persist
<b>Skin contact</b>	No effects of exposure expected
<b>Eye Contact</b>	Rinse with water. Get medical attention if irritation develops or persists
<b>Ingestion</b>	Rinse mouth with water
<b>Most important Symptoms</b>	Direct contact with eyes and ingestion may cause temporary irritation.
<b>Acute and delayed indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically
<b>General information</b>	None

SECTION 5 – FIRE FIGHTING MEASURES	
<b>Suitable extinguishing media</b>	Non-flammable – use extinguishing media suited to the source of the fire
<b>Unsuitable extinguishing</b>	Non-flammable – use extinguishing media suited to the source of the fire
<b>Specific hazards arising from the chemical</b>	Non-Hazardous
<b>Special protective equipment and precautions for fire fighters Fire fighting equipment / instructions</b>	None except that necessary for the primary cause of the fire.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials
<b>General fire hazards</b>	Non-combustible liquid.

SECTION 6 – ACCIDENTAL RELEASE MEASURES	
<b>Personal precautions, protective equipment and emergency procedures</b>	None necessary
<b>Methods and materials for containment and clean up</b>	Mop Bucket
<b>Environment procedures</b>	No procedures specified

SECTION 7 – HANDLING AND STORAGE	
<b>Precautions for safe handling</b>	Observe standard safety handling precautions. Non-toxic.
<b>Conditions for safe storage including incompatibilities</b>	Indoor storage in a dry place

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION	
<b>Occupational exposure limits</b>	No exposure limits for ingredients
<b>Biological limit values</b>	No biological exposure limits noted for ingredients
<b>Appropriate engineering controls</b>	No engineering controls noted.
<b>Individual protection measures such as personal protective equipment</b>	

# SAFETY DATA SHEET

Eye/face protection	Wear goggles
Skin protection	No protection noted.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	
Physical state	Liquid
Form	Liquid
Color	Clear to cloudy
Odor	Floral
Odor threshold	Not available
Ph	Mid-range
Melting point / freezing point	32 deg F
Initial boiling point and range	Not available
Flash point	Not available
Evaporative rate	Not available
Flammability (solid gas)	Non-flammable
<b>Upper/flammability or exposure limits</b>	
Flammability limit-lower (%)	Not available
Flammability limit-upper (%)	Not available
Exposure limit-lower (%)	Not available
Exposure limit-upper (%)	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility (water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
<b>Other information</b>	
Molecular formula	Not available
Molecular weight	Not available
Specific gravity	Not available
VOC (weight	XOXR <1.0%; XOPR <0.5%; XOXC <2.0%; XOPC <3.5%

## SECTION 10 – STABILITY AND REACTIVITY

Reactivity	Stable and non-reactive under normal conditions of use, storage and transport
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use
Conditions to avoid	Avoid deodorizing enclosed environment where flammable/explosive (natural gas, LPG methane, petroleum fuels) toxic and carcinogenic substances are, or could be present. Do not use X-O products with toxic or dangerous substances, where the odor of such substances is the only warning of their presence
Incompatible material	Strong oxidizing agents – enzymes –sodium hypochlorite (bleach)
Hazardous decomposition products	No hazardous decomposition products are known

# SAFETY DATA SHEET

SECTION 11 – TOXICOLOGY INFORMATION	
<b>Inhalation</b>	No adverse effects due to inhalation are expected
<b>Skin contact</b>	No adverse effects due to skin contact are expected
<b>Eye contact</b>	No adverse effects due to eye contact are expected
<b>Ingestion</b>	No adverse effects due to ingestion are expected
<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	Non-toxic
<b>Skin corrosion/irritation</b>	No adverse effects
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensation</b>	Not available
<b>Skin sensitization</b>	Not expected to cause skin sensitization
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	Not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA
<b>OSHA Specifically Regulated Substances (29 CFR 1910, 1001-1050)</b>	<b>Not listed</b>
<b>Reproductive toxicity</b>	Not expected to cause reproductive or developmental effects
<b>Specific target organ toxicity - single exposure</b>	Not classified
<b>Specific target organ toxicity - repeated exposure</b>	Not classified
<b>Aspiration Hazard</b>	Not available

SECTION 12 – ECOLOGICAL INFORMATION	
<b>Ecotoxicity</b>	Not classified as environmentally hazardous
<b>Persistence and degradability</b>	Biodegradable
<b>Bioaccumulative potential</b>	Not expected
<b>Mobility in soil</b>	Mobile
<b>Other adverse effects</b>	No adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential endocrine disruption, global warming potential) are expected

SECTION 13 – DISPOSAL CONSIDERATIONS	
<b>Disposal instructions</b>	Dispose of contents/container in accordance with local / regional / national / international regulations
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company
<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling.

# SAFETY DATA SHEET

SECTION 14 – TRANSPORT INFORMATION	
DOT	Not regulated as dangerous goods
IATA	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Dispose of in accordance with local regulations

SECTION 15 – REGULATORY INFORMATION		
US Federal regulations	Not regulated	
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated	
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed	
SARA 304 Emergency release notification	Not regulated	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed	
<b>Superfund Amendments and Regulated Substances Act of 1986 (SARA)</b>		
Hazard categories		
Immediate	No	
Delayed	No	
Fire	No	
Pressure	No	
Reactivity	No	
SARA 302 Extremely hazardous substance	Not listed	
SARA 311/312 Hazardous chemical	Not listed	
SARA 313 (TRI reporting)	Not regulated	
<b>Other federal regulations</b>		
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not regulated	
Safe Drinking Water Act (SDWA)	Not regulated	
<b>US state regulations</b>		
<b>US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)</b>		
	Not listed	
<b>US. Massachusetts RTK – Substance List</b>		
	Not regulated	
<b>US. New Jersey Worker and Community Right-to-know Act</b>		
	Not listed	
<b>US. Pennsylvania Worker and Community Right-to-know Law</b>		
	Not listed	
<b>US. Rhode Island RTK</b>		
	Not regulated	
<b>US. California Proposition 65</b>		
	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) These products are not known to contain any chemicals currently listed as carcinogens or reproductive toxins	
<b>International Inventories</b>		
<b>Country(s) or regions</b>	<b>Inventory Name</b>	<b>On Inventory (yes/no) *</b>

## SAFETY DATA SHEET

<b>Australia</b>	Australian Inventory of Chemical Substances (AICS)	Yes
<b>Canada</b>	Domestic Substances List (DSL)	Yes
<b>Canada</b>	Non-Domestic Substances (NDSL)	No
<b>China</b>	Inventory of Existing Chemical Substances in China	Yes
<b>Europe</b>	European Inventory of Existing Commercial Chemical Substances (ELINCS)	No
<b>Korea</b>	Existing Chemicals List (ECL)	Yes
<b>Japan</b>	Inventory of Existing and New Chemical Substances (ENCS)	Yes
<b>New Zealand</b>	New Zealand Inventory	Yes
<b>Philippines</b>	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
<b>United States &amp; Puerto Rico</b>	Toxic Substances Control Act (TSCA) Inventor	Yes
<p>(*)            "Yes" indicates that all the components of this product comply with the inventory requirements administered by the governing country(s)            "No" indicates that one or more of the components of the product are not listed or exempt for listing on the inventory administered by the governing country(s).</p>		

SECTION 16 – OTHER INFORMATION	
<b>Date prepared</b>	Sept. 1, 2017
<b>Disclaimer</b>	The information in the sheet was written based on experience and best knowledge currently available
<b>Revision</b>	
<b>2017_09_01_B</b>	This document has undergone significant changes and should be reviewed in its entirety
<b>2019_11_30_A</b>	Added XOUC – Ultra Concentrate formulation