

SAFETY DATA SHEETS

This SDS packet was issued with item:

078338570

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

078694616

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078019548

MSDS PC

X-O Plus Odor Neutralizer Concentrate

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

MATERIAL SAFETY DATA SHEET

Reviewed, NO CHANGES, April 2009

Section 01 - Identification

MSDS #02 Reviewed date 04/09 CONCENTRATED X-O PLUS + Odor Neutralizer/Cleaner;
Domestic Trade Names Same.

Water (CAS# 7732-18-5):	92.28%	Surfactant: 3.5% Alkyl polyglycoside (CAS# 110615-47-9): 50.00% Water (CAS# 7732-18-5): 50.00%
Proprietary essential oils compound HS: 3.5% <small>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</small>		Quaternary Ammonium Compound: 0.72% 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 Gravity. (H2O = 1): 1; pH of Solution: Range 7; Odor: Floral Aromatic

Section 4 - Physical Hazard Data Flash Point: 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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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.

MSDS PC

Continued....

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 .

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

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 HS 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

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4. First-aid measures

Inhalation	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
Skin contact	No effects of exposure expected
Eye Contact	Rinse with water. Get medical attention if irritation develops or persists.
Ingestion	Rinse mouth with water.
Most important Symptoms, acute and delayed	Direct contact with eyes and ingestion may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	None
5. Fire-fighting measures	
Suitable extinguishing media	Non-flammable – use extinguishing media suited to the source of the fire.
Unsuitable extinguishing	Non-flammable - use extinguishing media suited to the source of the fire.
Specific hazards arising From the chemical	Non-hazardous
Special protective equipment and precautions for fire fighters	None except that necessary for the primary cause of the fire.
Fire fighting equipment/instructions	Those necessary for the primary cause of the fire.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Non-combustible liquid.
6. Accidental release measures	
Personal precautions, protective equipment and emergency procedures	None necessary.
Methods and materials for containment and clean up	Mop bucket
Environmental procedures	No procedures specified.
7. Handling and storage	
Precautions for safe handling	Observe standard safety handling precautions. Non-toxic.
Conditions for safe storage	Indoor storage in a dry place.
Including and incompatibilities	
8. Exposure controls/personal protection	
Occupational exposure limits	No exposure limits for ingredients.
Biological limit values	No biological exposure limits noted for ingredients.
Appropriate engineering controls	No engineering controls noted.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear goggles
Skin protection	No protection noted.
Thermal hazard	None noted.
General hygiene	
Considerations	Observe good personal hygiene.

9. Physical and chemical properties

Appearance

Physical state	Liquid
Form	Liquid
Color	Clear to cloudy
Odor	Floral
Odor threshold	Not available
pH	Mid range
Melting point/freezing point	32.0 F
Initial boiling point and Boiling range	Not available
Flash point	Not available
Evaporative rate	Not available
Flammability (solid gas)	Non-flammable
Upper/flammability or exposure limits	
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(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Other information	
Molecular formula	Not available
Molecular weight	Not available
Specific gravity	Not available
VOC (weight)	Not available
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
11. Toxicological information	
Information or likely routes or exposure	
Inhalation	No adverse effects due to inhalation are expected
Skin contact	No adverse effects due to skin contact are expected
Eye contact	No adverse effects due to eye contact are expected
Ingestion	No adverse effects due to ingestion are expected
Symptoms related to the Physical, chemical and	

Toxicological characteristics

Information on toxicological effects

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

12. Ecological information

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

13. Disposal considerations

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

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	Not available

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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

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

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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

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