

SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: Oxy-Tite®
Product Code: 42804
Product Use: Pipe thread sealant for Oxygen
Manufacturer: LA-CO Industries, Inc.
 1201 Pratt Boulevard
 Elk Grove Village, IL.
 60007-5746
Phone Number: (847) 956-7600
 Fax: (847) 956-9885
24-hour Emergency: CHEMTREC: (800) 424-9300

Section 2: Hazards Identification

Protective Clothing	NFPA Rating (USA)	EU Classification	WHMIS (Canada)	Transport
		Not classified as dangerous	 Not controlled	Not Regulated

Emergency Overview:

Exposure to hazardous substances is not expected when handling this product for its intended use.

Extreme heating (>230°C) or during a fire may generate dense smoke, irritating and toxic fumes.

Appearance, Color and Odor: White paste, odorless.

USA: This material is not considered hazardous by the OSHA hazard Communication Standard (29 CFR 1910.1200).

Canada: This is not a controlled product under WHMIS.

European Union (EU): This product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Potential Health Effects

ACUTE (short term):

Relevant Route(s) of Exposure:

Oxy-Tite® does not present an inhalation or contact health hazard unless subjected to extreme heating.

Inhalation:

No health effects expected with normal use of the product.

Extreme heating (>230°C) of the product can release irritating vapors. Symptoms of irritation include coughing, sneezing, nasal discharge, headache, hoarseness and pain in the upper respiratory tract. Products of thermal decomposition of fluorocarbon monomers and polymers can produce a condition known as "polymer-fume fever"; the symptoms are flu-like (chills, headache and fever) with chest tightness and mild cough, onset of symptoms may be delayed.

Ingestion:

Not an expected route of occupational exposure. Acute oral toxicity of the component substances is low.

Skin:

No adverse health effects expected with normal use of the product.

Eye:

Direct eye contact may cause temporary irritation as a foreign object in the eye.

CHRONIC (long term):

Not available

Medical Conditions Aggravated by Exposure:

Not available

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Section 2: Hazards Identification (continued)

Interactions With Other Chemicals: Cigarette smoking is a common means of creating exposure to the products of decomposition of fluorocarbon monomers and polymers. Fluorocarbons may be deposited on cigarettes from the air or from workers' fingers. As a cigarette is smoked, fluorocarbons are then burned and the products of decomposition are inhaled with the cigarette smoke.

Potential Environmental Effects: Not available

Section 3: Composition / Information on Ingredients

Hazardous Ingredients:

Chemical Name	CAS No.	Wt.%	EINECS / ELINCS	Symbol	Risk Phrases
Non-hazardous mixture of Fluoropolymers, natural clay and Titanium dioxide.					

Section 4: First Aid Measures

Inhalation: If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice.

Eye Contact: Do not allow victim to rub eye(s). Let the eye(s) water naturally for a few minutes. Have victim look right and left, and then up and down. If particle/dust does not dislodge, flush with lukewarm, gently flowing water for 5 minutes or until particle/dust is removed, while holding the eyelid(s) open. If irritation persists, obtain medical attention. DO NOT attempt to manually remove anything stuck to eye(s).

Skin Contact: Quickly and gently, blot or brush away excess paste. Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 5 minutes. If irritation develops, obtain medical advice.

Ingestion: If irritation or discomfort occurs, obtain medical advice immediately.

Section 5: Fire Fighting Measures

Flammable Properties: Product may burn if involved in a fire but does not ignite readily.

Suitable extinguishing Media: Use extinguishing media suitable for surrounding fire e.g. water spray, dry chemical, carbon dioxide or an appropriate foam. Use water spray to cool fire-exposed containers.

Unsuitable extinguishing Media: Not applicable

Explosion Data:

Sensitivity to Mechanical Impact: Not applicable

Sensitivity to Static Discharge: Not applicable

Specific Hazards arising from the Chemical: During a fire, products of combustion may include Hydrogen fluoride, Carbon tetrafluoride and Carbonyl fluoride and oxides of carbon. These gases are corrosive and toxic if inhaled or in contact with skin. Irritating and harmful fumes are released when Fluoropolymers are heated above 230°C. The decomposition products and the resulting health effects are temperature-dependent.

Protective Equipment and precautions for firefighters: Self-contained breathing apparatus and protective clothing should be worn. Remove all unprotected personnel.

NFPA

Health:	1
Flammability:	1
Instability:	0

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Section 6: Accidental Release Measures

Personal Precautions:	Spilled product may pose a slipping hazard.
Environmental Precautions:	Prevent the product from entering sewers or waterways.
Methods for Containment:	Not applicable
Methods for Clean-up:	Do not re-use spilled material. Contamination will compromise the integrity of this product. Pick up spilled product and collect for proper disposal. Dispose of any contaminated, unusable product as described in Section 13 of this SDS.

Section 7: Handling and Storage

Handling:	Avoid contact with eyes and skin; do not breathe fumes. Do not use near sources of extreme heat. Keep out of reach of children. Wash thoroughly with detergent and water after handling, before eating, drinking, smoking or using the toilet.
Storage:	Store in a cool, dry area, away from heat, flames and ignition sources.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

Measurable airborne concentrations of the component substances are not expected when product is used as directed on the label for its intended purpose.

<u>Ingredient</u>	<u>Quebec (Canada) TWAEV (mg/m³)</u>
Polytetrafluoroethylene, decomposition products	2.5 mg/m ³ determine quantitatively the decomposition products in the air and express the results as Fluorides

Exposure Controls

Engineering Controls:	Not required for normal use. If product is overheated, provide adequate ventilation to keep fume concentrations below any applicable exposure limits. Consult local authorities for acceptable exposure limits.
Personal Protection:	
Eye/Face Protection:	No special requirements.
Skin Protection:	Wear appropriate gloves to prevent skin contact.
Respiratory Protection:	Not required for normal use. At elevated temperatures >230°C (480°F), wear a self-contained breathing apparatus to prevent exposure to toxic decomposition products. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements, European Standard EN529 or Canadian Standards Association (CSA) Standard Z94.4-2002 must be followed whenever workplace conditions warrant a respirator's use.
General Hygiene Measures:	Do not ingest. Avoid contact with skin and eyes. Keep out of reach of children. Wash hands after handling.

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Section 9: Physical and Chemical Properties

Physical State:	Paste	Flash Point & method:	Not applicable
Appearance, Color and Odor:	White paste; odorless.	Autoignition Temperature:	430°C to 440°C (806°F to 824°F) method ASTM G-72.
Odor Threshold:	Not available	Flammability Limits in Air:	Not applicable
pH:	Not applicable	Vapor Pressure:	Not applicable
Relative density (water = 1):	1.92	Vapor Density (Air = 1):	Not applicable
Partition coefficient:	Not available	Evaporation Rate:	Not applicable
Solubility:	Insoluble in water.	Boiling Point/Range:	Not applicable
Viscosity:	Not available	Freezing Point:	-30°C (approximate)
Decomposition Temperature:	Not available	VOC Content:	0% w/w

Section 10: Stability and Reactivity

Chemical Stability:	Stable at normal room temperature.
Conditions to Avoid:	Avoid extreme heat and open flames.
Incompatible Materials:	Incompatible with alkali metals and halogenated compounds. Incompatible with strong alkalis and strong Lewis acids above 100°C (212°F).
Hazardous Decomposition Products:	Product will degrade if heated above 230°C releasing substances which are corrosive and toxic. Decomposition products vary with temperature and conditions of heating. Hazardous decomposition substances include extremely toxic octafluoroisobutylene and carbon tetrafluoride, Hydrogen Fluoride, monomers of Tetrafluoroethylene, Hexafluoropropylene, Carbonyl fluoride and oxides of carbon.
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.

Section 11: Toxicological Information

<u>Acute Toxicity Data</u>	Acute toxicity data are not available for the mixture. Acute oral toxicity of the component substances is low.
<u>Chronic Toxicity Data</u>	
Carcinogenicity:	Polytetrafluoroethylene is listed as IARC Group 3, Not classifiable as to its carcinogenicity in humans. (IARC -International Agency for Research on Cancer)
Irritation:	Not available
Corrosivity:	Not applicable
Sensitization:	Not applicable
Neurological Effects:	Not available
Genetic Effects:	Not available
Reproductive Effects:	Not available
Developmental Effects:	Not available
Target Organ Effects:	Not available

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Section 12: Ecological Information

Ecotoxicity:	Not available
Persistence/Degradability:	Not available
Bioaccumulation/Accumulation:	Product is not readily biodegradeable.
Mobility:	Not available

Section 13: Disposal Considerations

Waste Disposal Method:	Do NOT discard into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage. The conditions of use, storage and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, LA-CO Industries, Inc. does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.
USA:	Dispose of in accordance with local, state and federal laws and regulations.
Canada:	Dispose of in accordance with local, provincial and federal laws and regulations.
EU:	Waste must be disposed of in accordance with relevant EU Directives and national, regional and local environmental control regulations. For disposal within the EU, the appropriate code according to the European Waste Catalogue (EWC) should be used.

Section 14: Transport Information:

U.S. Hazardous Materials Regulation (DOT 49CFR):	Not regulated
Canadian Transportation of Dangerous Goods (TDG):	Not regulated
ADR/RID:	Not regulated
IMDG:	Not regulated
ICAO/IATA:	Not regulated

Section 15: Regulatory Information

<u>USA</u>	TSCA Status: All ingredients in the product are listed on the TSCA inventory. SARA Title III Sec. 302/304: None Sec. 311/312: Not applicable Sec. 313: Not applicable CERCLA RQ: Not applicable California Prop 65: Not applicable State Right-to-Know Lists : State right to know lists: • Titanium dioxide, Massachusetts, New Jersey, and Pennsylvania. • Ethene, tetrafluoro-,homopolymer: Pennsylvania.
<u>Canada</u>	This product has been classified in accordance with the hazard criteria of the <i>Controlled Products Regulations</i> and the MSDS contains all the information required by the <i>Controlled Products Regulations</i>. WHMIS Classification: Not controlled DSL: All component substances are listed on Canada's Domestic Substances List (DSL).

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Section 15: Regulatory Information

**EU Classification for the
Substance/Preparation**

Symbol: This product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Section 16: Other Information

Preparation Information:

Revision Date: September 29, 2011

Manufacturer Disclaimer:

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, LA-CO Industries, Inc. makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will LA-CO Industries, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.

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