

MATERIAL SAFETY DATA SHEET

May be used to comply with
 OSHA's Hazard Communication Standard
 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Identity (As used on Label and List) UNASCO GREEN OXYGEN COMPATIBLE THREAD SEALING TAPE
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Section I

Manufacture's Name UNASCO P/L	Emergency Telephone Number NONE AVAILABLE
Address (Number, Street, State and ZIP Code) 5/921 TRANSPORT WAY PETALUMA CA 94954	Telephone Number for Information (TEL): 707 763 5413 (TOLL FREE): 1 800 773 5413 (FAX): 707 763 5487
Date Prepared APRIL 2005	Prepared by DAVID BENTLEY – PRODUCT MANAGER

Section II – Hazardous Ingredients/Identity Information

Ingredients	OSHA PEL	CAS Number	ACGIH TLV
Polytetrafluoroethylene	N/A	9002-84-0	N/A
Petroleum Solvent	N/A	64742-47-8	N/A
Pigment	N/A	N/A	N/A

Section III – Physical/Chemical Characteristics

Boiling Point N/A	Specific Gravity (H ₂ O = 1) 2.1
Vapor Pressure (mm Hg) N/A	Melting Point N/A
Vapor Density (air = 1) N/A	Evaporation Rate (Butyl Acetate = 1) N/A
Solubility in Water INSOLUBLE	Appearance and Odor GREEN POLYMERIC FILM/ODORLESS

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL	UEL
Extinguishing Media ANY STANDARD MEDIUM			
Special Fire Fighting Procedures COMBUSTIBLE SOLID. WILL BURN IF IN CONTACT WITH FLAME. COMBUSTION CEASES WHEN FLAME IS REMOVED. DECOMPOSITION ON HEATING ABOVE 260°C RESULTS IN THE EMISSION OF TOXIC FUMES. FIRE FIGHTERS TO WEAR SELF CONTAINED BREATHING APPARATUS IF THERE IS A RISK OF EXPOSURE TO PRODUCTS OF COMBUSTION AND DECOMPOSITION.			
Unusual Fire and Explosion Hazards TOXIC FUMES GIVEN OFF ABOVE 260°C.			

Section V – Reactivity Data

Stability:	Stable <input type="checkbox"/> Unstable <input type="checkbox"/>	Conditions to Avoid TEMPERATURES ABOVE 260°C WITHOUT ADEQUATE VENTILATION.
Incompatibility (Materials to Avoid) ALKALI METALS, EXTREMELY POTENT OXIDISERS E.G. FLUORINE, CHLORINE TRI-FLUORIDE, 80% NaOH OR KOH, METAL HYDRIDES SUCH AS BORANES (E.G. B ₂ H ₆) ALUMINIUM CHLORIDE, AMMONIA, CERTAIN AMINES (R-NH ₂) IMINES (RH-NH) AND 70% NITRIC ACID AT TEMPERATURES NEAR 260°C.		
Hazardous Polymerization:	May Occur <input type="checkbox"/> Will Not Occur <input type="checkbox"/>	Conditions to Avoid TEMPERATURE ABOVE 260°C.

Section VI – Health Hazard Data

Health Hazards (Acute)					
Swallowed? NO ADVERSE EFFECT KNOWN					
Eye? SEE ABOVE					
Skin? SEE ABOVE					
Inhalation? THE MATERIAL IS NOT NORMALLY AN INHALATION HAZARD AT TEMPERATURES BELOW 260°C AS IT REMAINS AN INERT SOLID. HOWEVER, EXPOSURE TO THERMAL DEGRADATION PRODUCTS AT TEMPERATURES ABOVE 260°C OR FUMES FROM TOBACCO CONTAMINATED WITH PARTICLES OF THE PRODUCT MAY RESULT IN “POLYMER FUME FEVER” OR INFLUENZA-LIKE SYMPTOMS (CHILLS, HEADACHES, DIFFICULTY IN BREATHING AND FEVER). SYMPTOMS MAY APPEAR SEVERAL HOURS AFTER EXPOSURE BUT WILL DISAPPEAR WITHIN 24-48 HOURS. THERE ARE EXPOSURE STANDARDS FOR DECOMPOSITION PRODUCTS.					
	HF*		TWA		STEL
		ppm	mg/m ³	ppm	mg/m ³
		3	2.6	PEAK LIMITATION	
*MEASURED AS AN INSPIRABLE FACTION					
CARBONYL FLUORIDE IS THE MAIN DECOMPOSITION PRODUCT FORMED WHEN PTFE IS SUBJECTED TO EXTENDED EXPOSURE AT NORMAL SINTERING TEMPERATURES (400°C). CARBONYL FLUORIDE IS IMMEDIATELY CONVERTED TO HIGHLY CORROSIVE HYDROGEN FLUORIDE IN THE PRESENCE OF MOIST AIR.					
Health Hazards (Chronic) NO ADVERSE EFFECTS KNOWN.					
Toxicity NO LD50 DATA IS AVAILABLE ON THE PRODUCT. NO TOXICITY WAS OBSERVED IN MAKE/FEMALE RATS FED PTFE (UP TO 25%) FOR 90 DAYS. LOCAL SARCOMAS WERE INDUCED IN MICE AND RATS IMPLANTED SUBCUTANEOUSLY OR INTRAPERITONEAL-LY WITH PTFE. HOWEVER, THIS IS NOT CONSIDERED RELEVANT TO NORMAL INDUSTRIAL USAGE.					
Carcinogenicity PTFE HAS BEEN CLASSIFIED BY THE INTERNATIONAL AGENCY FOR RESEARCH INTO CANCER AS A GROUP III AGENT. AS SUCH IT IS NOT CLASSIFIABLE AS TO ITS CARCINOGENEITY TO HUMANS.					
Emergency and First Air Procedures Inhalation: REMOVE VICTIM FROM EXPOSURE – AVOID BECOMING A CASUALTY. ALLOW PATIENT TO ASSUME MOST COMFORTABLE POSITION AND KEEP WARM. KEEP AT REST UNTIL FULLY RECOVERED. IF BREATHING LABORED AND PATIENT CYANOTIC (BLUE) INSURE THAT AIRWAYS ARE CLEAR AND HAVE A QUALIFIED PERSON GIVE OXYGEN THROUGH A FACE MASK. IF BREATHING HAS STOPPED APPLY ARTIFICIAL RESPIRATION AT ONCE. IN EVENT OF CARDIAC ARREST APPLY EXTERNAL CARDIAC MASSAGE. SEEK MEDICAL ADVICE.					

Section VII – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilt SWEEP UP
Waste Disposal Method BURNING IS NOT RECOMMENDED. COMPLY WITH LOCAL REGUALTIONS.
Precautions to be Taken in Handling and Storing KEEP AWAY FROM FLAMES. STORE BELOW 260°C.

Section VIII – Control Measures

Respiratory Protection NO SPECIAL CONTROLS ARE NECESSARY IF USED WITHIN RECOMMENDED OPERATION TEMPERATURES (i.e. -260°C TO +260°C).	
Ventilation SEE ABOVE.	
Protective Gloves SEE ABOVE	Eye Protection SEE ABOVE.
Other Protective Clothing or Equipment SEE ABOVE.	Work/Hygienic Practices SEE ABOVE.