MATERIAL SAFETY DATA SHEET

Complies with guidelines set out by the National Occupational Health & Safety Commission (NOHSC) of Australia.

Identity (As used on Label and List) GAS SEALANT - COMPOUND	# CHOO!	# # CT002.
Section 1	(UTP)	(#UTS)

Manufacture's Name	Emergency Telephone Number
UNASCO PTY LTD	NONE AVAILABLE
Address (Number, Street, State and ZIP Code)	Telephone Number for Information
1 AMAX AVE, GIRRAWEEN.	(TEL): +61 (0)2 9636 1200
NSW 2145, AUSTRALIA	(FAX): +61 (0)2 9688 4831
Date Prepared	Prepared by
APRIL 2009	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
Polymerized Fatty Acid	N/A	N/A	N/A
Clay	N/A	N/A	N/A
Pigment	N/A	N/A	N/A

Section III - Physical/Chemical Characteristics

Boiling Point	Specific Gravity ($H_20 = 1$)
N/A	1.5
Vapour Pressure (mm Hg)	Melting Point
N/A	N/A
Vapour Density (air = 1)	Evaporation Rate (Butyl Acetate = 1)
N/A	N/A
Solubility in Water	Appearance and Odour
INSOLUBLE	A YELLOW PASTE WITH A GREASE-LIKE
	ODOUR

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL	
300°C - 330°C (OPEN CUP)	N/A			
Extinguishing Media				
ANY STANDARD MEDIUM				
Special Fire Fighting Procedures				
HAZARDOUS DECOMPOSITION PRODUCTS PRODUCED ON BURNING INCLUDE OXIDES OF				
CARBON. OXIDES OF NITROGEN, WATER VAPOUR, SMOKE AND FUMES AND HYDROGEN				
FLUORIDE. FIRE FIGHTING PERSONNEL TO WEAR SELF CONTAINED BREATHING APPARATUS				
AND PROTECTIVE CLOTHING. USE FOAM, CARBON DIOXIDE, DRY CHEMICAL AND WATER				
SPRAY TO EXTINGUISH.				
Unusual Fire and Explosion Hazards				
TOXIC FUMES GIVEN OFF ABOVE 260°C.				

Section V - Reactivity Data

Stability:	Stable		Conditions to Avoid
Stability.	Unstable		TEMPERATURES ABOVE 260°C WITHOUT ADEQUATE
	Onstable		VENTILATION.
Incompatibility	(Materials to Avoid)		
INCOMPATIB	LE WITH REDUCING AC	GENTS	S, PERCHLORATES, STRONG MINERAL ACIDS AND
			N OXYGEN EQUIPMENT.
Hazardous	May Occur		Conditions to Avoid
Polymerization	Will Not Occur		TEMPERATURE ABOVE 260°C.

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Section VI - Health Hazard Data

Health Hazards (Acute)

Swallowed?

MAY CAUSE GASTROINTESTINAL PAIN, CRAMPS, NAUSEA. VOMITING AND DIARRHOEA: UNCONSCIOUSNESS & DEATH FOLLOWING MASSIVE EXPOSURES.

Eve?

DIRECT CONTACT WITH EYES MAY CAUSE IRRITATION.

Skin?

BRIEF EXPOSURES ARE NOT IRRITATING.

Inhalation?

THERE IS RELEVANT DATA ON ONE INGREDIENT.

PTFE

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.

	TV	VA	STEL		
HF*	ppm	mg/m³	ppm	mg/m³	
	3	2.6	PFAK LI	MITATION	

*MEASURED AS AN INSPIRABLE FRACTION

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.

PEAK LIMITATION – A CEILING CONCENTRATION WHICH SHOULD NOT BE EXCEEDED OVER A MEASUREMENT PERIOD WHICH SHOULD BE AS SHORT AS POSSIBLE BUT NOT EXCEEDING 15 MINUTES.

TLV – THRESHHOLD LIMIT VALUE.

TWA – (THE TIME WEIGHTED AVERAGE) – AIRBORNE CONCENTRATIONS OVER AN EIGHT HOUR WORKING DAY FOR A FIVE DAY WORKING WEEK OVER AN ENTIRE WORKING LIFE

STEL – (SHORT TERM EXPOSURE LIMIT) – THE AVERAGE AIRBORNE CONCENTRATION OVER A 15 MINUTE PERIOD WHICH SHOULD NOT BE EXCEEDED AT ANY TIME DURING A NORMAL 8 HOUR WORKING DAY. ACCORDING TO CURRENT KNOWLEDGE THESE CONCENTRATIONS SHOULD NOT IMPAIR THE HEALTH OF, NOR CAUSE UNDUE DISCOMFORT TO, HEALTHY WORKERS.

Health Hazards (Chronic)

NO DATA IS AVAILABLE.

Toxicity

THERE IS NO INFORMATION ON THE PRODUCT BUT THERE IS DATA ON ONE OF ITS INGREDIENTS.

Polytetrafluoroethylene (PTFE):

NO LD50 DATA IS AVAILABLE ON PTFE. NO TOXICITY WAS OBSERVED IN MALE/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.

Polymerized Fatty Acid:

SLIGHTLY TOXIC. FATAL DOSE UNKNOWN BUT PRESUMABLY LARGE, ESTIMATED FATAL DOSE: 5 – 15mg/kgs. MAY INDUCE ABORTIONS.

Carcinogeneity

PTFE

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

Swallowed:

NEVER GIVE ANYTHING BY MOUTH IF THE VICTIM IS UNCONSCIOUS OR CONVULSING. RINSE MOUTH WITH WATER. IF VOMITING OCCURS, HAVE VICTIM LEAN FORWARD TO REDUCE RISK OF ASPIRATION. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

Eye:

RINSE AFFECTED EYE(S) THOROUGHLY WITH LUKE WARM, GENTLY RUNNING WATER, HOLDING APART THE UPPER AND LOWER EYELID(S) OCCASIONALLY, FOR AT LEAST 20 MINUTES. SEEK MEDICAL ADVICE IMMEDIATELY.

Skin:

RINSE AFFEDCTED AREA WITH LUKE WARM, GENTLY RUNNING WATER FOR AT LEAST 15 MINUTES. IF SKIN IRRITATION PERSISTS, SEEK MEDICAL ADVICE.

Inhalation:

REMOVE VICTIM FROM EXPOSURE – AVOID BECOMING A CASUALITY. 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 ARRST APPLY EXTERNAL CARDIAC MASSAGE. SEEK MEDICAL ADVICE.

Advice to Doctor:

TREAT SYMPTOMATICALLY.

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.e260°C TO +260°C).		
Ventilation		
SEE ABOVE.		
Protective Gloves	Eye Protection	
SEE ABOVE	SEE ABOVE.	
Other Protective Clothing or Equipment	Work/Hygienic Practices	
SEE ABOVE.	SEE ABOVE.	

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