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## PFALTZ AND BAUER, INC -- TETRAETHYLENEPENTAMINE UHP -- 6810-00-412-5242

Product ID:TETRAETHYLENEPENTAMINE UHP

MSDS Date:09/09/1999

FSC:6810

NIIN:00-412-5242

MSDS Number: CFKYB === Responsible Party ===

Company Name: PFALTZ AND BAUER, INC

Address:172 EAST AURORA ST.

City:WATERBURY

State:CT ZIP:06708 Country:US

Info Phone Num:203-574-0075 Emergency Phone Num:203-57

4-0075

Chemtrec Ind/Phone:(800)424-9300

CAGE:93272

=== Contractor Identification ===

Company Name: KAMPI COMPONENTS CO., INC.

Address:210 RT 13

Box:721

City:BRISTOL

State:PA

ZIP:19007-3517

Country:US

Phone:215-736-2000

Contract Num:SP0450-99-M-NJ70

CAGE:7Z016

Company Name: LINMARR ASSOCIATES INC

Address:4460 N PARK ST Box:City:LAS VEGAS

State:NV

ZIP:89129-2678

Country:US

Phone:702-655-7800

Contract Num:SP0450-00-M-D485

CAGE:1GX03

Company Name:PFALTZ AND BAUER,INC. Address:172-EAST AURORA STREET

C

ity:WATERBURY State:CT ZIP:06708 Country:US Phone:203-574-0075

CAGE:93272

====== Composition/Information on Ingredients ========

Ingred Name: TETRAETHYLENEPENTAMINE

CAS:112-57-2

RTECS #:KH8585000 Minumum % Wt:92. Maxumum % Wt:98.

Other REC Limits: NONE RECOMMENDED

Ingred Name:TRIETHYLENE TETRAMINE

CAS:112-24-3

RTECS #:YE6650000 Minumum % Wt:1. Maxumum % Wt:5.

Other REC Limits: NONE RECOMMENDED

Ingred Name:PENTAETHYLENE HEXAMINE

CAS:4067-16-7

RTECS #:RZ2680000 Minumum % Wt:.5

Maxum um % Wt:2.

Other REC Limits: NONE RECOMMENDED

========== Hazards Identification ================

LD50 LC50 Mixture: NOT GIVEN

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: EYES: CAUSES SEVERE IRRITATION,

CHEMICAL BURNS AND SEVERE INJURY OF CORNEA THATCOULD RESULT IN PERMANENT IMPAIRMENT OF VISION. SKIN: CAUSES LOCAL DISCOMFORT AND

TISSUE DESTRUCTION. INHALATION: VAPOR I

## S IRRITATING TO NOSE AND

THROAT. HIGH VAPOR CONCENTRATIONS MAY CAUSE LUNG DAMAGE, ASTHMA. INGESTION: MODERATELY TOXIC. MAY CAUSE BURNS OF MOUTH AND THROAT. CHRONIC: REPEATED VAPOR EXPOSURE MAY CAUSE INJURY TO THE RESPIRATORY TRACT.REPEATEDORAL EXPOSUREW MAY CAUSE KIDNEY AND LIVER CHANGES.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:EYES:

IRRITATION, PAIN, EXCESS BLINKING AND

TEAR PRODUCTION, CHEMICAL BURNS OF CORNEA, IMPAIMENT OF VISION. SKIN: LOCAL DISCOMFORT OR PAIN, SEVERE REDNESS AND SWELLING, TISSUE DESTRUCTION, FISSURES, ULCERATION, BLEEDING. INHALATION: INJURY TO RESPIRATORY TRACT, IRRITATION, BURNING SENSATION OF NOSE AND THROAT, COUGHING, WHEEZING, SHORTNESS OF BREATH, NAUSEA, VOMITING, LUNG DAMAGE, ASTHMA. INGE STION: BURNS OF MOUTH AND THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING, DIARRHEA. DIZZINESS.

WEAKNESS, THIRST, COLLAPSE, COMA, LUNG INJURY. DIGESTION: BURNS OF MOUTH AND THROAT, ABDOMINAL PAIN, NAUSEA, D IZZINESS, WEAKNESS, COMA.

Medical Cond Aggravated by Exposure:PRE-EXISTING DERMATITIS, ASTHMA, INFLAMMATORY OR FIBROTIC PULMONARY DISEASE AND/OR RESPIRATORY CONDITIONS MAY BE WORSENED BY EXPOSURE TO THIS MATERIAL.

First Aid:INGESTION: IF CONSCIOUS, GIVE 2 GLASSES OF MILK OR WATER. DO

NOT INDUCE VOMITING. OBTAIN MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. FLUSH SKIN WITH WATER FOR 15 MINUTES. OBTAIN MEDICAL AT TENTION. INHALATION: MOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. IF BREATHING IS DIFFICULT, GIVE OXYGEN. OBTAIN MEDICAL ATTENTION. EYES: FLUSH WITH WATER FOR 15 MINUTES. DO NOT RE MOVE CONTACTS. GET MEDICAL ATTENTION.

Flash Point Method:PMCC

F

lash Point:=171.1C, 340.F
Lower Limits:0.8
Upper Limits:4.6

Extinguishing Media:APPLY ALCOHOL-TYPE OR ALL-PURPOSE-TYPE FOAMS, RECOMMENDED TECHNIQUES FOR LARGE FIRES. CARBON DIOXIDE OR DRY CHEMICAL MEDIA FOR SMALL FIRES.

Fire Fighting Procedures:DO NOT DIRECT SOLID STREAM OF WATER OR FOAM INTO MOLTEN MATERIAL; THIS MAY CAUSE SPATTERING AND SPREAD THE FIRE. USE SELF-CONTAINED BREATHING APPARATUS, EYE PROTECTION AND PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:DURING FIR E, OXIDES OF NITROGEN WILL BE EVOLVED.

	Accidental Release Measures	
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Spill Release Procedures:WEAR SUITABLE PROTECTIVE EQUIPMENT. AVOID CONTACT WITH LIQUID & VAPOR. COLLECT FOR DISPOSAL. AVOID DISCHARGE TO SEWERS OR WATERWAYS. THIS PRODUCT IS RESISTANT TO BIODEGRADATION IN A BIOLOGICAL WASTEWA TER TREATMENT PLANT. COULD BE TOXIC TO BIOMASS AND FISH..

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

======	====== Handling an
d Storage	

Handling and Storage Precautions: DANGER! MAY CAUSE ASTHMA WITH POSSIBLE LONG-TERM LUNG DAMAGE. CAUSES EYE AND SKIN BURNS. HARMFUL AND CORROSIVE IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH THE SKIN. MAY CAUSE ALLERGIC SKIN RE ACTION AND RESPIRATORY SYSTEM DAMAGE.

Other Precautions:FOR INDUSTRY USE ONLY. DO NOT BREATHE VAPOR. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. DO NOT SWALLOW. KEEP CONTAINER CLOSED. USE WTIH ADEQUATE VENTILA

TION. WASH THOROUGHLY AFTER

HANDLING. DO NOT ADD NITRATES OR OTHER NITROSATING AGENTS. A NITCROSAMINE, WHICH AYY CAUSE CANCER, MAY BE FORMED.

====== Exposure Controls/Personal Protection ========

Respiratory Protection: POSITIVE PRESSURE SUPPLIED AIR RESPIRATOR EQUIPPED WITH FULL FACEPIECE SHOULD BE USED DURING ANY OPERATION WHERE THERE IS POTENTIAL FOR RELEASE OF PRODUCT TO WORKPLACE AIR. Ventilation: GENERAL (MECHANICAL) ROOM VENTILATION IS EXPECTED TO BE

ATISFACTORY.LOCAL VENTILATION IS NEEDED AT POINTS WHERE VAPORS CAN BE EXPECTED TO ESCAPE IN WORKPLACE.

Protective Gloves:BUTYL OR NEOPRENE GLOVES.

Eye Protection: MONOGOGGLES.

Other Protective Equipment: EYEBATH, SAFETY SHOWER, CHEMICAL APRON.

Work Hygienic Practices: WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

SUDDEN RELEASES OF HOT ORGANIC CHEMICAL VAPO

RS OR MISTS FROM PROCESS

EQUIPMENT OPERATING AT ELEVATED TEMPERATURES AND PRESSURES, OR SUDDEN INGRESS OF AIR INTO VACUUM EQUIPMENT MAY RESULT IN IGNITION W ITHOUT THE PRESENCE OF OBVIOUS IGNITION SOURCES.

======== Physical/Chemical Properties ==========

HCC:C2

Boiling Pt:=340.C, 644.F B.P. Text:DECOMPOSES Melt/Freeze Pt:=-37.C, -34.6F Decomp Temp:=340.C, 644.F Vapor Pres: