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Imageney Telephone Number TRANSIENE COMPANY, INC, Emergency Telephone Number CHEMITRIC 1-800-429-900 (24 hrs) DANVERS INDUSTRIAL PARK Telephone Number TIEL 9777-7860 FAX 978-739-5640 DANVERS INDUSTRIAL PARK Date Frequencial DECC292 REVISED NOVEMBER 5, 1997 DANVERS MA 01923 Preparer (optional) DANVERS MA 01923 MARTIN HIGHT DANVERS MA 01923 Other Limits Recommended DANVERS MA 01923 CAS# 000107-15-3 THYLINEPIAMINE CAS# 000107-15-3 Dippm 10pm PYROCATECHOL CAS# 000107-15-3 THIS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910,1200) THIS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD THIS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD Cetion II - Physical / Chenical Characteristics *0 OF MIXTURE * OF ETHYLENEDIAMINE wolding Point **2400 *239F,115C *0 OF MIXTURE * OF ETHYLENEDIAMINE 'apor Pressure (mm Hg.) **N/A *210 **239F,115C 'apor Pressure (mm Hg.) **N/A **N/A *UmmHig @20 'aport Pressure (mm Hg.) *N/A <td>Identity (As used on Label and List)</td> <td></td> <td>Note: Blank spaces are not permitted.</td> <td></td> <td></td>	Identity (As used on Label and List)		Note: Blank spaces are not permitted.			
TRANSENE COMPANY, INC, CÎLEMTRIĆ L 1800-424-9300 (24 Phys). dides (Number, Stret, City, State and ZIP Code) Telephone Number for Information DANVERS INDUSTRIAL PARK Telephone Number for Information DEC.2 92 REVISED NOVEMBER 5, 1997 Preparer optional) MARTIN HECHT Cetton II - Hazardous lagredients / Identity Information MARTIN HECHT EFTHYLENEDIAMINE CAS# 000107-15-3 00% CAS# 000107-15-3 PYROCATECHOL CAS# 120-80-9 5ppm 5ppm 0% THS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910,1200) TN ADDITION, OTHER SUBSTANCES NOT HAZARDOUS PER THIS OSHA STANDARD MAY BE LISET D. WHERE PROPRIETY INGREDIENT SHOWS, THE DEDNTTY MAY BE MADE AVAILABLE AS PROVIDED IN THIS STANDARD. eetion III - Physical / Chemical Characteristics ** OF MIXTURE * OF ETHYLENEDIAMINE rolling Point **2400 **230F_11SC **06 MIXTURE * OF ETHYLENEDIAMINE rolling Point **N/A **N/A *N/A **N/A *N/A **N/A **N/A **N/A **N/A **N/A **N/A **N/A *N/A **N/A **N/A **N/A **N/A **N/A **N/A **N/A <td>Section 1</td> <td></td> <td></td> <td></td> <td></td>	Section 1					
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DANVERS INDUSTRIAL PARK TEL 978-777.7860 FAX 978-729-5640 Del ELCTRONICS AVENUE Date Prepared DEC.2.92 REVISED NOVEMBER 5, 1997 DANVERS MA 01923 Prepared (optional) MARTIN IECHT Data Prepared (optional) MARTIN IECHT MARTIN IECHT Data Prepared (optional) MARTIN IECHT MARTIN IECHT Data Prepared (optional) CAS# 000107-15-3 10ppm EFTHYLENEDIAMINE CAS# 000107-15-3 10ppm 10ppm PVROCATECHOL CAS# 120-80-9 5ppm 5ppm PVROCATECHOL CAS# 120-80-9 5ppm 5ppm THIS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910,1200) TIN ADDITION, OTHER SUBSTANCES NOT HAZARDOUS PER THIS OSHA STANDARD MAY BE LISETD. WHERE PROPRIETY NOREDIENT SHOWS, THE DEDNTTY MAY BE MADE AVAILABLE AS PROVIDED IN THIS STANDARD ***007 **0.0 ection III - Physical / Chemical Characteristics ** OF MIXTURE * OF ETHYLENEDIAMINE ***0.1 option ***230F, 115C ***0FMINE **0FTHYLENEDIAMINE ***0.4 ***0.4 option ***N/A ***0FTHYLENEDIAMINE ***0.4 ***0.4 ***0.4 option ***N/A ***0/A ***0.4 ***0.4 ***				24 hrs)		
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60% Sppm Sppm Sppm PYROCATECHOL CAS# 120-80-9 Sppm Sppm BALANCE AQUEOUS-NON HAZARDOUS THIS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910,1200) IN ADDITION, OTHER SUBSTANCES NOT HAZARDOUS PER THIS OSHA STANDARD MAY BE LISTED. WHERE PROPRIETY INGREDIENT SHOWS, THE IDENTITY MAY BE MADE AVAILABLE AS PROVIDED IN THIS STANDARD. ection III - Physical / Chemical Characteristics ** OF MIXTURE * OF ETHYLLENEDIAMINE foiling Point **239F,115C *239F,115C Specific Gravity (H2O = 1) **N/A *10mmlig @20 *apor Pressure (mm Hg.) **N/A *10mmlig @20 **N/A *10mmlig @20 **N/A *200 **N/A *201 **N/A *00ubility in Water **MIXES COMPLETELY **MDEXES LQUID; AMMONIACAL ODOR **N/A **CORDES LQUID; AMMONIACAL ODOR 2.6 % @100° C UEL **APPROX. 150°F *101F, 38C Flammable Limits LEL 2.6 % @100°C U4.2 %@100°C 4.2 %@100°C 4.2 %@100°C 4.2 %@@100°C **APPROX. 150°F *101F, 38C Flanmable Limits LEL <		••••••••				
In the second s	>60%		10ppm 10)ppm		
THIS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910,1200) IN ADDITION, OTHER SUBSTANCES NOT HAZARDOUS PER THIS OSHA STANDARD MAY BE LISTED. WHERE PROPRIETY INGREDIENT SHOWS, THE IDENTITY MAY BE MADE AVAILABLE AS PROVIDED IN THIS STANDARD. cetton III - Physical / Chemical Characteristics * OF ETHYLENEDIAMINE toiling Point * Specific Gravity (H2O = 1) **N/A * N/A **N/A ***N/A ***N/A ***N/A ***N/A ***N/A ***********************************	PYROCATECHOL >10%	CAS# 120-80-9	5ppm	5ppm		
THIS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910,1200) IN ADDITION, OTHER SUBSTANCES NOT HAZARDOUS PER THIS OSHA STANDARD MAY BE LISTED. WHERE PROPRIETY INGREDIENT SHOWS, THE IDENTITY MAY BE MADE AVAILABLE AS PROVIDED IN THIS STANDARD. cetton III - Physical / Chemical Characteristics * OF ETHYLENEDIAMINE toiling Point * Specific Gravity (H2O = 1) **N/A * N/A **N/A ***N/A ***N/A ***N/A ***N/A ***N/A ***********************************						
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INGREDIENT SHOWS, THE IDENTITY MAY BE MADE AVAILABLE AS PROVIDED IN THIS STANDARD. ection III - Physical / Chemical Characteristics ** OF MIXTURE * OF ETHYLENEDIAMINE ioiling Point **>2400 **>210 **>1.0 *239F,115C **N/A **0F MIXTURE **N/A 'apor Pressure (mm Hg.) **N/A **N/A **N/A 'apor Density (AIR = 1) **N/A **N/A **N/A 'apor Density (AIR = 1) **N/A Evaporation Rate (Butyl Acetate = 1) **N/A 'apor Density (AIR = 1) **MIXES COMPLETELY *MIXES COMPLETELY *N/A 'apor and and Odor **MIXES COMPLETELY *MIXES COMPLETELY *N/A 'aporation Rate **OLORLESS LIQUID; AMMONIACAL ODOR **N/A *N/A 'appearance and Odor ** AMBER/PINK LIQUID; AMMONIACAL ODOR *COLORLESS LIQUID; AMMONIACAL ODOR *COLORLESS LIQUID; AMMONIACAL ODOR 'extinguishing Media WATER FOG, ALCOHOL FOAM, CO2, DRY CHEMICAL. UEL 14.2%@100 ^O C 14.2%@100 ^O C 'xtinguishing Media WATER FOG, ALCOHOL FOAM, CO2, DRY CHEMICAL. Eextinguishing Media WATER FOG, ALCOHOL FOAM, CO2, DRY CHEMICAL. UEL Inusual Fire and Explosion Hazards N/A N/A */A 1						
Action III - Physical / Chemical Characteristics ** OF MIXTURe * OF ETHYLENEDIAMINE toiling Point **>2400 Specific Gravity (H2O = 1) **>1.0 *239F,115C *10mmHg @20 *0.393-0.906 25/25C 'apor Pressure (mm Hg.) **N/A *10mmHg @20 'apor Density (AIR = 1) **N/A *N/A *10mmHg @20 Evaporation Rate (Butyl Acetate = 1) **N/A *2.07 *MIXES COMPLETELY *MIXES COMPLETELY olubility in Water **AMBER/PINK LIQUID; AMMONIACAL ODOR. * COLORLESS LIQUID; AMMONIACAL ODOR * cetton IV - Fire and Explosion Hazard Data IEL 2.6 % @100 ^O C UEL 14.2%@100 ^O C ash Point (Method Used) **101F, 38C Flammable Limits IEL 2.6 % @100 ^O C UEL 14.2%@100 ^O C ixtinguishing Media WATER FOG, ALCOHOL FOAM, CO2, DRY CHEMICAL. pecial Fire Fighting Procedures Imusual Fire and Explosion Hazards N/A						
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*239F,115C *0.393-0.906 25/25C /apor Pressure (mm Hg.) **N/A *10mmHg @20 **N/A /apor Density (AIR = 1) **N/A **N/A Evaporation Rate (Butyl Acetate = 1) **N/A *2.07 *MIXES COMPLETELY *N/A olubility in Water **MIXES COMPLETELY *MIXES COMPLETELY pearance and Odor ** AMBER/PINK LIQUID; AMMONIACAL ODOR. * COLORLESS LIQUID; AMMONIACAL ODOR UEL ection IV - Fire and Explosion Hazard Data IEL 2.6 % @100 ^O C UEL 1ash Point (Method Used) *101F, 38C Flammable Limits UEL 14.2%@100 ^O C *xtinguishing Media WATER FOG, ALCOHOL FOAM, CO2, DRY CHEMICAL. pecial Fire Fighting Procedures inusual Fire and Explosion Hazards N/A	Boiling Point	**>2400	Specific Gravity ($H2O = 1$)		**>1.0	
/apor Pressure (mm Hg.) **N/A Melting Point **N/A *10mmHg @20 **N/A *N/A *N/A /apor Density (AIR = 1) **N/A *N/A *N/A *2.07 WIXES COMPLETELY **N/A *N/A olubility in Water **MIXES COMPLETELY *MIXES COMPLETELY *pearance and Odor ** AMBER/PINK LIQUID; AMMONIACAL ODOR. * COLORLESS LIQUID; AMMONIACAL ODOR UEL ection IV - Fire and Explosion Hazard Data IEL UEL lash Point (Method Used) *101F, 38C Flammable Limits UEL **APPROX. 150 ^O F *101F, 38C Flammable Limits UEL atinguishing Media WATER FOG, ALCOHOL FOAM, CO2, DRY CHEMICAL. UEL pecial Fire Fighting Procedures N/A		- • •				
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* COLORLESS LIQUID; AMMONIACAL ODOR section IV - Fire and Explosion Hazard Data lash Point (Method Used) Flammable Limits LEL UEL **APPROX. 150 ^O F *101F, 38C Flammable Limits LEL 2.6 % @100 ^O C 14.2%@100 ^O C xtinguishing Media WATER FOG, ALCOHOL FOAM, CO2, DRY CHEMICAL. pecial Fire Fighting Procedures Inusual Fire and Explosion Hazards N/A						
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pecial Fire Fighting Procedures		*101F, 38C	Flammable Limits			
pecial Fire Fighting Procedures	Extinguishing Media WATER FC	G. ALCOHOL FOAM CO2	DRY CHEMICAL	1		
Inusual Fire and Explosion Hazards N/A	2 2	<u>, , , , , , , , , , , , , , , , , , , </u>	Bitt entements			
	Unusual Fire and Explosion Hazards	N/A				
produce locally) OSHA 174, Sept. 1985	· · · · · · · · · · · · · · · · · · ·					
	Reproduce locally)		OSHA 174, Sept. 1985			

Section V -Reactivit	ty Data					
Stability	Unstable		Conditions to Avoid			
	Stable	Х	AUTOIGNITION TEMPERATURE IN AIR IS APPROXIMATELY 763F, 406C.			
Incompatibility (Materi MIXTURE WITH THE			IZING MATERIAL, HALOGENATED ORGANIC COMPOUNDS, ALDEHYDES, KECONES, AND ACRYLA' T IN A TEMPERATURE AND/OR PRESSURE INCREASE.	TES.		
Hazardous Decomposi	tion or Byproducts					
NITROGEN OXIDES WHEN BURNED. Hazardous May Occur Conditions to Avoid						
Polymerization	May Not	Х				
Section VI - Health	Occur Herend Date					
Route(s) of Entry:	Hazaru Data	Inhalati	ion ? Skin? Ingestion?			
		YES	YES YES			
Health Hazards (Acute and Chronic) REPEATED EXCESSIVE EXPOSURES MAY CAUSE LIVER AND KIDNEY INJURY. DID NOT CAUSE CANCER IN LONG-TERM ANIMAL STUDIES. BITH DEFECTS ARE UNLIKELY. EXPOSURES HAVING NI EFFECT ON THE MOTHER SHOULD HAVE NO EFFECT ON THE FETUS. DID NOT CAUSE BIRTH DEFECTS IN ANIMALS; OTHER EFFECTS WERE SEEN IN THE FETUS ONLY AT						
			E MOTHER. IN ANIMAL STUDIES, HAS SHOWN NOT TO INTERFERE WITH FIVE DATA INDICATES MINIMAL OR NO MUTAGENIC POTENTIAL.			
Carcinogenicity		NTP?	IARC Monographs? OSHA Regulated?			
Signs And Symptoms	of Exposure	A	N/A N/A			
EYE CONTACT: M	AY CAUSE SEVER		ION WITH CORNEAL INJURY WHICH MAY RESULT IN PERMANENT			
IMPAIRMENT OF VISION, EVEN BLINDNESS. VAPORS MAY IRRITATE EYES. SKIN CONTACT & ABSORBTION: SHORT SINGLE EXPOSURE MAY CAUSE SEVERE BURNS. HAS CAUSED ALLERGIC SKIN REACTIONS IN HYMANS.; A SINGLE PROLONGED EXPOSURE MAY RESULT IN THE MATERIAL BEING ABSORBED IN HARMFUL AMOUNTS. THE LD50 FOR SKIN ABSORBTION IN RABBITS IS 657 mg/kg. INGESTION: SINGLE DOSE ORAL TOXICITY IS LOW TO MODERATE. INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION OR ULCRATION. MAY CAUSE SEVERE BURNS OF MOUTH AND THROAT. THE LD50 IS 1460mg/kg FOR RATS						
AND470 mg/kg FOR GUINEA PIGS. INHILATION: EXCESSIVE VAPOR CONCENTRATIONS ARE ATTAINABLE AND COULD BE HAZARDOUS ON SINGLE EXPOSURE. EXCESSIVE EXPOSURE MAY CAUSE SEVERE IRRITATION TO THE UPPER RESPIRATORY TRACT. MAY CAUSE RESPIRATORY SENSITIZATION IN SUSCEPTIBLE INDIVIDUALS.						
Medical Conditions Generally Aggravated	by Exposure	N/A				
Emergency and First A EYES: IMMEDIATI		US IRRIGA	TION WITH FLOWING WATER FOR AT LEAST 30 MINUTES IS IMPERATIVE.			
PROMPT MEDICAL CONSULTATION IS ESSENTIAL. SKIN: IN CASES OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN IF IRRITATION PERSISTS. WASH CLOTHING BEFORE REUSE. DESTROY CONTAMINATED SHOES OR OTHER ARTICLES THAT CANNOT BE DECONTAMINATED. INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE AMOUNTS OF WATER OR MILK IF AVAILABLE AND TRANSPORT TO MEDICAL FACILITY. INHILATION: REMOVE TO FREH AIR IF EFFECTS OCCUR. CONSULT A PHYSICIAN.						
Section VII - Preca						
Steps to Be Taken in Case Material is Released or Spilled						
LARGE SPILL- DIKE UP AND DILUTE WITH WATER. PUMP INTO APPROPRIATE CONTAINERS. SMALL SPILL- DILUTE WITH WATER AND RECOVER OR USE NON-COMBUSTIBLE ABSORBENT MATERIAL / SAND AND SHOVEL INTO SUITABLE CONTAINER.						
Waste Disposal Method LARGE QUANTITIES COULD BE RECOVERED. OTHERWISE, INCINERATE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. DO NOT DUMP INTO SEWRS, ON THE GROUND OR INTO ANY BODY OF WATER. THE DOW CHEMICAL COMPANY MAY BE CONTRACTED FOR ADVICE.						
Precautions to be taken in handling and storing EXPOSURE GUIDELINES:						
ACGIH TLV AND OSHA PEL ARE 5ppm.(PYROCATECHOL) - ACGIH TLV AND OSHA PEL ARE 10ppm. (ETHYLENEDIAMINE) GROUND ALL TRANSFER EQUIPMENT. STORE BELOW 120F,49C AND ABOVE 51F, 11C. HOLD BULK STORAGE UNDER NITROGEN BLANKET. COPPER AND ALLOYS OF COPPER SHOULD NOT BE USED AS THEY ARE QUICKLY CORRODED.						
Other Precautions						
Section VIII - Cont Respiratory Protection (ATMOSDIT	ERIC LEVELS SHOULD BE MAINTAINED BELOW THE EXPOSURE GUIDELINE.			
	DUSE AN APPROVED AIR-PURIFYING RESPIRATOR. Special					
	X Mechanical (Ger	ieral)	Other			
Protective Gloves	Х		Eye Protection			
	RUBBER CHEMICAL GOGGLES Other Protective Clothing or Equipment					
BOOTS, FULL BODY SUIT, FACE-SHEILD Work/Hygienic Practices DOT CLASS: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.						
(ETTYLENEDIAMINE & PYROCATECHOL) UN3266						