

MATERIAL SAFETY DATA SHEET

BIN#77

12374.
BIN #77

Kendall-Polyken
15 Hampshire Street
Mansfield, MA 02048

INFORMATION TELEPHONE NO.: 508-261-6201
EMERGENCY TELEPHONE NO.: 800-424-9304

PREPARATION DATE: 08/10/95
EFFECTIVE DATE: 07/08/97

REPLACES DATE: 04/13/93

PREPARER: JLA

SECTION I - PRODUCT IDENTIFICATION

NASHUA 398 ADHESIVE
MANUFACTURED EXCLUSIVELY FOR AND DISTRIBUTED BY NASHUA TAPE PRODUCTS
FPANASHUA398

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WT % TS c TRAR	OCCUPATIONAL EXPOSURE LIMITS			SPIN DESIG- NATION	VAPOR PRESSURE mmHg	KNOWN OR SUSPECTED ZOC	OR CARCINOGEN 313	
			(TLV-TWA)	(TLV-STEL)	(TLV-CEILING)					
DIMETHYL ETHER	115-10-6	15%	1000ppm	NFC	NO INFO	NO INFO	NO	3422.8	NO	NO
PROPANE	71-98-6	2%	1000ppm	OSHA	NO INFO	NO INFO	NO	3684.6	NO	NO
ACETONE	67-64-1	3%	1000ppm	OSHA	1000ppm	ACGIH	NO INFO	102.7	NO	NO
HEXANE	110-54-3	4%	500ppm	OSHA	NO INFO	NO INFO	NO	125.8	NO	YES

THIS PRODUCT CONTAINS ONE OR MORE MATERIALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND THE COMMUNITY RIGHT-TO-KNOW ACTS OF 1986 AND OF 40 CFR 172.

N.A. - NOT APPLICABLE

SECTION III - PHYSICAL DATA

BOILING RANGE : -44- 159 F
ODOR : MINT WHEN WET
APPEARANCE : CLEAR LIQUID
VOLATILE BY WEIGHT : 87.8%
VOLATILE BY VOLUME : 91.6%
VOC CONTENT: 71.9 % BY WEIGHT, 485 GRAMS/LITER TOTAL PRODUCT,
561 GRAMS/LITER LESS WATER AND EXEMPT, 0.60 LBS/CAN

VAPOR DENSITY : IS HEAVIER THAN AIR
EVAPORATION RATE: IS FASTER THAN BUTYL ACETATE
SOLUBILITY : NEGLIGIBLE
PRODUCT DENSITY : 5.6 LBS/GAL (US)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:

OSHA - FLAMMABLE LIQUID - CLASS IA
DOT - CONSUMER COMMODITY ORN-D

FLASH POINT: -156 F LEL: 1.0 %
(PENSKY-MARTENS CLOSED CUP) UEL: 18.0 %

EXTINGUISHING MEDIA: WATER FOG DRY CHEMICAL CARBON DIOXIDE FOAM

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

UNUSUAL FIRE AND EXPLOSION HAZARDS: VAPORS ARE HEAVIER THAN AIR AND TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT. FOR AEROSOL PRODUCTS - EXPOSURE TO TEMPERATURES OVER 130°F MAY CAUSE CONTAINERS TO BURST, RELEASING HIGHLY FLAMMABLE GAS.

SPECIAL FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE WHEN FIGHTING FIRES. KEEP FIRE EXPOSED CONTAINERS COOL WITH WATER FOG.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVER EXPOSURE: *****CALIFORNIA PROPOSITION 65***** THIS PRODUCT CONTAINS TRACE LEVELS OF THE FOLLOWING CHEMICALS WHICH THE STATE OF CALIFORNIA HAS FOUND TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: BENZENE; EYE CONTACT: CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION. SKIN CONTACT: PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION DEFATTING, DERMATITIS. INHALATION: EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, POSSIBLE UNCONSCIOUSNESS, AND EVEN ASPHYXIATION. OVEREXPOSURE MAY CAUSE DAMAGE TO THE NERVOUS SYSTEM. OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS: KIDNEY DAMAGE, EYE DAMAGE.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: CENTRAL NERVOUS SYSTEM DISORDERS.

PRIMARY ROUTE(S) OF ENTRY: INHALATION DERMAL

EMERGENCY AND FIRST AID PROCEDURES: SKIN CONTACT: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE RE-USE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWER LIDS OCCASIONALLY, GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE TWO GLASSES OF WATER IF CONSCIOUS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET IMMEDIATE MEDICAL ATTENTION. INHALATION: REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. KEEP PERSON WARM, QUIET. GET MEDICAL ATTENTION.

SECTION VI - REACTIVITY DATA

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND CARBON DIOXIDE. VARIOUS HYDROCARBONS, SULFUR DIOXIDE.

CONDITIONS TO AVOID: DO NOT STORE ABOVE 120°F. DO NOT STORE IN DIRECT SUNLIGHT. HEAT, SPARKS, WELDING ARCS, OPEN FLAME, STATIC ELECTRICITY, OR OTHER SOURCE OF IGNITION.

INCOMPATIBILITY: ACIDS, REDUCING AGENTS, STRONG OXIDIZERS.

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SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: ELIMINATE SOURCES OF IGNITION & VENTILATE AREA. PERSONS NOT PROPERLY EQUIPPED SHOULD BE EXCLUDED FROM AREA. STOP SPILL AT SOURCE - PREVENT SPREADING. AVOID INHALATION OF VAPORS. AVOID SKIN CONTACT WITH LIQUID. SOAK UP ON ABSORBENT MATERIAL AND PLACE INTO CONTAINER FOR DISPOSAL. USE NON-SPARKING SCOOPS FOR FLAMMABLE MATERIALS. CLEAN WALKING SURFACES THOROUGHLY TO REDUCE SLIPPING HAZARD.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IF WORKPLACE EXPOSURE LIMITS OF PRODUCT OR ANY COMPONENT IS EXCEEDED, USE A NIOSH/MSHA APPROVED RESPIRATOR. CONSULT YOUR SAFETY EQUIPMENT SUPPLIER FOR RECOMMENDATIONS.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL VENTILATION (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

PROTECTIVE GLOVES: WEAR IMPERVIOUS GLOVES IF METHOD OF USE INVOLVES SKIN CONTACT WITH PRODUCT. CONSULT YOUR SAFETY SUPPLY VENDOR FOR GLOVE RECOMMENDATIONS.

EYE PROTECTION: WEAR SAFETY GLASSES AT MINIMUM, MORE EXTENSIVE PROTECTION MAY BE NECESSARY DEPENDING ON HOW THE PRODUCT IS TO BE USED.

OTHER PROTECTIVE EQUIPMENT: WEAR IMPERVIOUS CLOTHING IF BODILY EXPOSURE IS ANTICIPATED. CONSULT YOUR SAFETY SUPPLY VENDOR FOR RECOMMENDATIONS.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR SMOKING. SMOKE IN DESIGNATED AREAS ONLY. REMOVE AND LAUNDER CLOTHING.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP AWAY FROM HEAT SOURCES, OPEN FLAME, SPARKS. DO NOT STORE ABOVE 120F. DO NOT STORE IN DIRECT SUNLIGHT. KEEP FROM REACH OF CHILDREN. DO NOT PUNCTURE, INCINERATE, OR PLACE AEROSOL PRODUCT CONTAINERS IN COMPACTORS.

OTHER PRECAUTIONS: CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED, SINCE CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN MUST BE OBSERVED. DO NOT FLAME CUT, BRAZE, OR USE WELDING TORCH. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL. ON JUNE 30, 1993 THE OSHA Z-1-A TABLE WAS REVOKED AND OSHA REVERTED BACK TO THEIR PRIOR EXPOSURE LIMITS. THE VALUES ON THIS MSDS REFLECT THE ROLL BACK TO THE PRIOR VALUES. SOME STATES MAY CONTINUE TO ENFORCE THE 1993 LIMITS. ON JUNE 16, 1995 EPA ANNOUNCED IN A FINAL RULE THAT ACETONE WOULD NO LONGER BE CONSIDERED A VOC FOR AIR ATTAINMENT STANDARDS. (IT IS NOW CONSIDERED AN EXEMPT COMPOUND) NOT ALL STATES HAVE ADOPTED THE EXEMPT STATUS OF ACETONE AT THIS TIME. THE VOC CALCULATIONS ON THIS MSDS ARE BASED ON ACETONE BEING AN EXEMPT COMPOUND. THE JUNE '16 RULE ALSO REMOVED ACETONE FROM THE LIST OF SARA 313 REPORTABLE CHEMICALS, EFFECTIVE THE 1994 REPORTING YEAR. THE ENVIRONMENTAL INFORMATION AND HAZARDOUS MATERIALS IDENTIFICATION SYSTEM HAVE BEEN INCLUDED BY CAMIE CAMPBELL INC. IN ORDER TO PROVIDE ADDITIONAL HEALTH AND HAZARD CLASSIFICATION INFORMATION. THE RATINGS RECOMMENDED

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SECTION IX - OTHER PRECAUTIONS

ARE BASED UPON THE CRITERIA SUPPLIED BY THE DEVELOPERS OF THESE RATING SYSTEMS, TOGETHER WITH CAMIE CAMPBELL INC.'S INTERPRETATION OF THE AVAILABLE DATA. PROPER PERSONAL PROTECTIVE EQUIPMENT VARIES WIDELY WITH CONDITIONS OF USE AND ANTICIPATED EXPOSURE. WE RECOMMEND THAT A SUPERVISOR OR OTHER QUALIFIED PERSON DETERMINE PROPER PPE FOR INTENDED USE.

SECTION X - HMIS RATINGS

HEALTH: 2

FLAMMABILITY: 4

REACTIVITY: 0

PERSONAL PROTECTION: X

DISCLOSURE: THE INFORMATION ON THIS DATA SHEET REPRESENTS OUR CURRENT DATA AND IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED WHETHER ORIGINATING WITH THE COMPANY OR NOT. ANY USE OF THIS PRODUCT WHICH IS NOT IN CONFORMANCE WITH THIS DATA SHEET OR WHICH INVOLVES THE USE OF THIS PRODUCT IN COMBINATION WITH ANY OTHER PRODUCT OR ANY OTHER PROCESS IS THE RESPONSIBILITY OF THE USER.

FROM : IPCO SAFETY

TO : 12158268266

1998.09-08

07:49

#491 P.02/06

EXTINGUISHING MEDIA: DRY CHEMICAL WATER FOG CARBON DIOXIDE FOAM

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