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SECTION I - IDENTIFICATION

CHEMICAL NAME: HIGH PURITY PARAFFINIC MINERAL OIL SYNONYMS: DIRECTORR 8995P PREMIUM VACUUM PUMP OIL

FORMULA: NA (PRODUCT IS REFINED NATURALLY OCCURING MIXTURE)

DOT CLASSIFICATION: CAS 68037-01-4

MANUFACTURER'S NAME

WELCH VACUUM TECHNOLOGY, INC.

GENERAL INFORMATION: ADDRESS

7300 N. LINDER AVENUE (708)676-8800

CITY, STATE AND ZIP OTHER INFORMATION

SKOKIE, IL 60076-0183 CALL ABOVE

SIGNATURE OF PERSON

RESPONSIBLE FOR PREPARATION (OPTIONAL) PREPARED 1-14-91

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

HAZARDOUS COMPONENT(S)(CHEMICAL & COMMON NAME(S)

ACGIH OTHER EXPOSURE TLV LIMITS OSHA

PEL LIMITS OPTIONAL

HIGH PURITY PARAFINIC MINERAL OIL

NO NO OSHA PEL ACGIH TLV 100%

TO THE BEST OF OUR KNOWLEDGE, THE ABOVE LISTED COMPONENT IS NOT HAZARDOUS ACCORDING TO OSHA (1910, 1200) OR ONE OR MORE STATE RIGHT-TO-KNOW LISTS.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTIC

BOILING POINT, C: 445 F (ASTM D-86 METHOD) VAPOR PRESSURE IMM 11G)

MELTING POINT, F: N/A 3 X 10-6

SPECIFIC GRAVITY (WATER=1): 0.86 @ 22 C (72 F) WATER SOLUBILITY: NIL

EVAPORATION RATE (BUTYL ACETATE=1): N/D VAPOR DENSITY (AIR=1): N/D

APPEARANCE AND ODOR: PALE YELLOW, SLIGHT ODOR

SECTION 4 - FIRE & EXPLOSION DATA

FLASH METHOD FLAMMABLE LIMITS LEL UEL POINT 450 F. USED C.O.C IN AIR % BY VOLUME N/D LOWER N/D UPPER N/D

AUTO-IGNITION TEMPERATURE EXTINGUISHER MEDIA

USE WATER SPRAY, DRY CHEMICAL, FOAM OR CARBON 505 F

DIOXIDE

SPECIAL FIRE FIGHTING PROCEDURES

WATER MAY BE INEFFECTIVE BUT SHOULD BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL. IF SPILL OR LEAK HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS

UNUSUAL FIRE AND EXPLOSION HAZARDS

FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS IN THE POSITIVE-PRESSURE MODE WITH A FULL FACEPIECE WHEN THERE IS A POSSIBILITY OF EXPOSURE TO SMOKE. FUMES OR HAZARDOUS DECOMPOSITION PRODUCTS.

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SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

STABLLITY: STABLE, HOWEVER AVOID HEATING TO DECOMPOSITION. THE USER IS ADVISED TO HAVE A SAFETY EXPERT EVALUATE THE SPECIFIC CONDITIONS

USE. POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: N/A

MATERIALS TO AVOID: N/D

HAZARDOUS DECOMPOSITION PRODUCTS:

DECOMPOSITION OF ORGANIC MATERIALS MAY PRODUCE CARBON MONOXIDE.

HAZARDOUS MAY OCUUR CONDITIONS TO AVOID

POLYMERIZATION WILL NOT OCCUR X N/A

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SECTION 6 - HEALTH HAZARDS

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IRRITATION.

ORAL :N/D
DERMAL :N/D
INHALATION :N/D

CARCINOGENICITY: N/D

SIGNS AND SYMPTOMS OF EXPOSURE

PRIMARY ROUTES OF EXPOSURE: INHALATION, SKIN OR EYE CONTACT, AND INGESTION.

FIRST AID MEASURES

IF INHALED: REMOVE TO FRESH AIR. IF VICTIM HAS STOPPED BREATHING, GIVE ARTIFICIAL RESPIRATION. SEEK MEDICAL ATTENTION.

IN CASE OF EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF COOL WATER FOR

15 MINUTES. DO NOT LET VICTIM RUB EYES.

IN CASE OF SKIN CONTACT: WASH AFFECTED AREA THOROUGHLY.

IF SWALLOWED: DO NOT INDUCE VOMITING. IF VICTIM IS CONSCIOUS AND ABLE TO SWALLOW, GIVE WATER TO DILUTE, DO NOT GIVE SODIUM BICARBONATE, FRUIT JUICES, OR VINEGAR. SEE MEDICAL ATTENTION.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

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STORAGE AND HANDLING PRECAUTIONS: NO SPECIAL PRECAUTIONS NECESSARY.

WASTE DISPOSAL METHOD: UNDER RCRA, IT IS THE RESPONSIBILITY TO THE USER

OF PRODUCTS TO DETERMINE AT THE TIME OF DISPOSAL, WHETHER PRODUCT MEETS RCRA CRITERIA FOR HAZARDOUS WASTE. THIS IS BECAUSE PRODUCT USES, TRANSFORMATIONS, MIXTURE, PROCESSES, ETC. MAY RENDER THE RESULTING

MATERIAL HAZARDOUS.

ACTION TO TAKE FOR SPILLS OR LEAKS: WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING AS DESCRIBED BELOW. CONTAIN SPILLED MATERIAL. TRANSFER TO SECURED CONTAINERS. COLLECT USING ABSORBENT MEDIA. IN THE EVENT OF AN UNCONTROLLED RELEASE OF THIS MATERIAL, USER SHOULD DETERMINE IF RELEASE IS REPORTABLE UNDER APPLICABLE LAWS AND REGULATIONS UNDER RCRA.

SECTION 8 - CONTROL MEASURES

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VENTILATION: NORMAL.

RESPIRATORY PROTECTION: RESPIRATORS SHOULD BE SELECTED CBASED ON THE FORM AND CONCENTRATION OF CONTAMINANT IN THE AIR,

AND IN ACCORDANCE WITH OSHA(1910.134).

EYE PROTECTION: SAFETY GOGGLES MEETING ANSI Z 87.1 STANDARD.

PROTECTIVE CLOTHING: IMPERVIOUS GLOVES WHEN PROLONGED CONTACT CANNOT BE AVOIDED.

OTHER PROTECTIVE MEASURES: WEAR IMPERVIOUS CLOTHING FOR THE DURATION OF ANTICIPATED EXPOSURE.

WORK/HYGIENIC PRACTICES: EMPLOYEES SHOULD EXERCISE REASONABLE PERSONAL CLEANLINESS.

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