



ISP TECHNOLOGIES INC.

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MATERIAL SAFETY DATA SHEET

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PVP K-30

SECTION 01 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

DOMESTIC TRADE NAME: PVP K-30

EXPORT TRADE NAME: PVP K-30

CAS REGISTRY NO.: 00009003-39-8

CAS REGISTRY NAME: 2-PYRROLIDINONE, 1-ETHENYL-, HOMOPOLYMER

SYNONYM: POLYVINYLPIRROLIDONE

MOLECULAR FORMULA: (C₆H₉NO)_x

SECTION 02 - COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

NONE

SECTION 03 - HAZARDS IDENTIFICATION

-ACUTE TOXICITY-

ORAL TOXICITY:

RAT LD₅₀ > 100,000 MG/KG

DERMAL TOXICITY:

NOT ABSORBED TOPICALLY.

INHALATION TOXICITY:

HUMAN, GUINEA PIG AND RABBIT; EXPOSURE TO AEROSOLS AND DUSTS OF SMALL PARTICLE SIZE PRODUCED NO EVIDENCE OF HARMFUL EFFECTS.

SKIN IRRITATION:

HUMAN REPEAT INSULT PATCH TEST; NOT A PRIMARY IRRITANT.

EYE IRRITATION:

RABBIT; NO IRRITATION OBSERVED.

SENSITIZER: NO

HUMAN REPEAT INSULT PATCH TEST; NOT A SENSITIZER.

DOT CORROSIVE:

NO DATA FOUND.





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SECTION 03 - HAZARDS IDENTIFICATION (CONT.)

PRIMARY ROUTE(S) OF ENTRY: CONTACT

-SIGNS AND SYMPTOMS OF EXPOSURE-

SYMPTOMS OF INGESTION:

NO EFFECTS OF EXPOSURE EXPECTED.

SYMPTOMS OF INHALATION:

IF MISTED, NO EFFECTS OF EXPOSURE EXPECTED.

SYMPTOMS OF SKIN CONTACT:

NO EFFECTS OF EXPOSURE EXPECTED DUE TO ABSORPTION OR CONTACT. MAY POSSIBLY CAUSE IRRITATION OR DERMITITIS IN SOME INDIVIDUALS UPON PROLONGED CONTACT.

SYMPTOMS OF EYE CONTACT:

NO EFFECTS OF EXPOSURE EXPECTED WITH THE EXCEPTION OF POSSIBLE IRRITATION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

NO DATA FOUND

-OTHER TOXICITY-

OTHER ACUTE TOXICITY:

NO DATA FOUND

SUB CHRONIC ORAL TOXICITY:

RODENT AND DOG STUDIES; NO ADVERSE EFFECT LEVEL EXCEEDS 10% OF TOTAL DIET; NO EVIDENCE OF CARCINOGENIC ACTIVITY.

SUB CHRONIC INHALATION TOXICITY:

NO DATA FOUND

SUB CHRONIC MISCELLANEOUS TOXICITY:

NO DATA FOUND

AQUATIC TOXICITY:

NO DATA FOUND

TUMORIGENICITY:

CHRONIC RODENT AND DOG FEEDING STUDIES SHOW THAT THE NO ADVERSE EFFECT LEVEL EXCEEDS 10% OF THE DIET WITH NO EVIDENCE OF CARCINOGENIC ACTIVITY.

MUTAGENICITY:

PVP WAS TESTED IN THE AMES ASSAY; DOMINANT LETHAL TEST ON MICE; L5178Y MOUSE (TK +/-) LYMPHOMA ASSAY; BONE MARROW CHROMOSOMAL ABBERATION ASSAY; AND THE BALB/C 3T3 TRANSFORMATION. IN EACH CASE PVP WAS FOUND



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SECTION 03 - HAZARDS IDENTIFICATION (CONT.)

NOT TO BE MUTAGENIC.

REPRODUCTIVE TOXICITY:

TERATOLOGY STUDIES WITH PVP CONCENTRATIONS UP TO 10% OF THE DIET SHOW NO EMBROTOXICITY, FETOTOXICITY OR TERATOGENICITY.

MISCELLANEOUS TOXICITY:

NO DATA FOUND

SECTION 04 - FIRST AID MEASURES

FIRST AID FOR INGESTION:

GENERAL PRECAUTIONARY MEASURES SUGGEST INDUCING VOMITING IMMEDIATELY BY GIVING TWO GLASSES OF WATER AND STICKING FINGER DOWN THROAT. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN.

FIRST AID FOR INHALATION:

NONE REQUIRED.

FIRST AID FOR SKIN CONTACT:

FOR ALL FOREIGN MATERIALS, WASH AFTER EXPOSURE.

FIRST AID FOR EYE CONTACT:

FOR ALL FOREIGN MATERIALS, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER.

SECTION 05 - FIREFIGHTING MEASURES

FLASH POINT: NO FLASH POINT

AUTOIGNITION TEMP: NO DATA FOUND

FLAMMABLE LIMITS: NO DATA FOUND

FIRE FIGHTING MEDIA:

USE MEDIA PROPER TO PRIMARY CAUSE OF FIRE.

SPECIAL FIRE FIGHTING PROCEDURES:

NONE KNOWN

FIRE/EXPLOSION HAZARDS:

NONE KNOWN

NFPA HAZARD CODES - HEALTH/FLAMMABILITY/REACTIVITY

NO DATA FOUND

HMS HAZARD CODES - HEALTH/FLAMMABILITY/REACTIVITY

NO DATA FOUND



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SECTION 06 - ACCIDENTAL RELEASE MEASURES

SPILL/LEAK CLEAN-UP PROCEDURES:

SCOOP UP, AVOID DUSTING. DISPOSE OF WITH SOLID WASTE ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS. FLUSH SPILL AREA WITH WATER.

SECTION 07 - HANDLING AND STORAGE

PRECAUTIONARY MEASURES:

AVOID BREATHING DUST.

DISPOSAL METHOD:

DISPOSE OF WITH SOLID WASTE ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION:

GENERAL PRECAUTIONARY MEASURES SUGGEST USE WITH ADEQUATE VENTILATION.

RESPIRATORY PROTECTION:

DUST MASK WHERE DUSTING CANNOT BE AVOIDED.

EYE PROTECTION:

SAFETY GLASSES.

SKIN PROTECTION:

NONE REQUIRED.

PERSONAL HYGIENE:

OBSERVE ORDINARY MEASURES OF PERSONAL HYGIENE.

PROTECTIVE MEASURES DURING REPAIR/MAINTENANCE OF EQUIPMENT:

WASH EQUIPMENT THOROUGHLY WITH STEAM OR WARM WATER UNTIL CLEAN. CHECK FOR FLAMMABLES WITH AN 'EXPLOSION METER' AND ALSO CHECK THE OXYGEN LEVEL WITH AN OXYGEN METER. IN ALL CASES, FOLLOW GOOD INDUSTRIAL SAFETY PRACTICES BEFORE ENTERING EQUIPMENT.

EXPOSURE LIMITS:

NUISANCE DUST: TLV:TWA 10 MG/M3-TOTAL; 5 MG/M3-RESPIRABLE.

PEL:TWA 15 MG/M3-TOTAL; 5 MG/M3-RESPIRABLE.



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SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NO DATA FOUND
VAPOR PRESSURE: NOT VOLATILE
VAPOR DENSITY (AIR=1): NOT VOLATILE
WATER SOLUBILITY: COMPLETE
MELTING/FREEZING POINT: NO DATA FOUND
APPEARANCE: POWDER
SPECIFIC GRAV. (WATER=1): NO DATA FOUND
PERCENTAGE VOLATILES: 5.00 % WATER
EVAPORATION RATE: NOT VOLATILE
pH OF SOLUTION: 3.00 - 7.00 (5% AS IS IN DISTILLED WATER)
ODOR: NO DATA FOUND

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: STABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID:
NONE KNOWN

INCOMPATIBLE MATERIALS:
STRONG OXIDIZING OR REDUCING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:
NONE KNOWN



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