

Material Safety Data Sheet

Product Name: PVP K 30

Section 1-Product Information

Chemical Name : PVP K30 CAS Registry No : 9003-39-8

CAS Registry Name : 2-Pyrroldonone, 1 Ethenyl, Homopolymer

Synonym: Polyvinylpyrrolidone

Molecular Formula : $(C_6H_9NO)_x$

Section 2-Composition, Information on Ingredients

None

Section 3-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, repeated insult patch test not a primary irritant.

Eye irritation : rabbit, no irritation observed

Sensitizer : no-human, repeated insult patch test : not a sensitizer

Dot corrosive : not data found

Primary route(s) of entry : contact

-Signs and symptoms of exposure-

Symptoms of ingestion : no effect of exposure expected Symptoms of inhalation : no effect of exposure expected

Symptoms of skin contact: no effects of exposure expected due to contact may

possibly cause irritation or dermatitis in some

individuals upon proglonged contact.

Symptoms of eye contact: no effects of exposure expected with the exception of

possible irrigation

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 exveeds

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 levelexceeds 10% of the diet woth no

evidence of carcinogenic activity.

Mutagenicity : Pvp was tested in the ames assay; dominant lethal test

on mice, 15178y mouse (tk+/-) lymphoma assay; bond marrow chromosomal aberration assay; and the balb/c 3t3 transformation; in each case pvp was found not to

be mutagenic.

Reproductive toxicity : Teratology studies with pvp concentrations upto 10% of

the diet show no eembryotoxicity, fetoxicity or

teratogenicity.

Miscellaneous toxicity : No data found

Section 4-First Aid Measure

First aid for ingestion : Drink plenty of water, call a physican never give

anything by mouth to an unconscious person

First aid for inhalation : None required

First adi for skin contact : For all foreign material, wash after exposure

First aid for eye contact : For all foreign materials, imme. Flush eyes with plenty of

water

Section 5-Fire fighting procedure

Flash point : Not applicable 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: May form explosive dust-air mixtures

NFPA hazard codes-health/flammability/reactivity 1 2 3 HMIS hazard codes-health/flammability/reactivity 0 3 0



Section 6-Accidental Release Measure

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 7-Handling and Storage

Precautionary Measures: Avoid breathing dust avoid excessive dusting conditions **Disposal Method:** Dispose of with solid waste according to federal, state

and local regulations

RCRA Class : Not regualted

Section 8-Exposure control/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 measure : Wash equipment thoroughly with steam or
during repair/mainte- warm water until clean, check for flamm-

nance of equipment ables with an 'explosion meter' and also check the oxygen level with an oxygen meter in all cases, follow

good industrial safety practives before entering

equipment.

Exposure limits : for inert or nuisance dust (particulars not otherwise

regulated/classified) osha pel:twa 15 mg/m3-total dust,

5 mg/m3-respirable fraction

acgih tlv twa 10 mg/m3 - inhalable,3 mg/m3-resiprable

Section 9-Physical 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 rateq : 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 under normal storage conditions

Hazardous polymerization: Will not occur under normal storage conditions

Conditions to avoid : Heat, fire, sparks and others sources of ignition avoid

excessive dusting conditions.

Incompatible materials : Storng oxidizing or reducing agents

Hazardous decomposition products : Toxic fumes of nox emitted when heated to

decompostion

Section 11-Toxicity Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 40000 mg/kg [Mouse].

Chronic Effects on Humans: CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: It is not considered a primary irritant. However, it may cause skin irritation. Eyes: May

cause eye irritation. Inhalation: Breathing dust may cause respiratory tract irritation.

Symptoms may include coughing,

sore throat, labored breathing, and chest pain. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting,

hypermotility, and diarrhea. Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may affect the urinary system, and spleen.

Section 12-Ecological Information

Environmental Fate : No information found Environmental Toxicity : No information found

Section 13-Disposal Considerations

Other Protective Measures : Impermeable apron and boots to prevent skin contact

Respiratory Production : Approved dust respirator if dusting occurs.

Gloves : Rubber Plastic

Eyes Protection : Chemical Goggles



Section 14-Transport Information

Domestic data

Dot shipping name : Not regulated Dot hazard class : Not regulated

Hazardous ingredients (s): None UN number: None

Export data

Export shipping name : Not regulated Export hazard class : Not regulated

Hazardous ingredients (s) : None UN number : None

Section 15-Regulatory Information

Federal and State Regulations:

California Director's List of Hazardous Substances: Povidone K-90 TSCA 8(b) inventory:

Povidone K-90

Other Regulations: Not available.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:



Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16-Additional Information

References: Not available.

Other Special Considerations: Not available.

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