



SHANGHAI DEXIANG MEDICINE TECH. CO.,LTD

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MATERIAL SAFETY DATA SHEET

PVP K25

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1. Product and company information

Product Name: PVP K25

Manufacture: Shanghai Dexiang Medicine Tech. Co.,Ltd

Add: No.325-326, Building No. 3, No.900 Quyang road, Shanghai, 200437, China

Tel.:+86-21-55512698

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2. Composition/information on ingredients

Chemical nature: 2-Pyrrolidinone,

1-Ethenyl-,Homopolymer(Weight,95-100%),moisture(weight,5% max.)

CAS NO. 9003-39-8

INCI Name: PVP (Polyvinylpyrrolidone)

Synonyms:Polyvinylpyrrolidone, PVP, Povidone , K25

3. Hazard identification

No particular hazards knowm.

4. First aid measures

General advice: Remove contaminated clothing.

If inhaled: keep patient calm, remove to fresh air

On skin contact: Wash thoroughly with soap and water.

On contact with eyes: Wash affected eyes for at least 15 minutes

under running water with eyelids held open.

On ingestion: Rinse mouth and then drink plenty of water,do not induce vomiting,seek medical attention.

5. Fire fighting measures

Suitable extinguishing media: water spray,carbon dioxide,foam

Specific hazards: carbon dioxide,cyanides,nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment: In case of fire, wear a self contained breathing apparatus.

Further information: Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.

6. Accidental release measures

Personal precautions: Avoid dust formation.

Environmental precautions: Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up: Sweep/shovel up.

7. Handling and storage

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid dust formation. The product is capable of dust explosion. Take precautionary measures against static discharges.

Further information on storage conditions: Keep tightly closed in a dry and cool place. Keep at temperature not exceeding 25 °C.

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Particle filter EN 143 Type P1, low efficiency, (solid particles of inert substances).

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on own tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Eye protection:

Safety glasses with side-shields (frame goggles) (EN 166)

General safety and hygiene measures:

none Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form: powder

Colour: White or off-white

Odour: faint specific odour

pH: 5.0-8.0(1% Suspension)

Boiling Point : Not determined

Melting/Freezing Point : Not determined

Vapor Pressure: Not determined

Solubility: Insoluble in Water

10. Stability and reactivity

Thermal decomposition: > 220 °C

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions. Dust explosion hazard.

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer

LD50/oral/rat: > 5,000 mg/kg

Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer

LC50/by inhalation/rat: > 5,2 mg/l / 4 h

Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer

Primary skin irritation/rabbit: non-irritant

Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer

Primary irritations of the mucous membrane/rabbit: non-irritant

Further information:

Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer

No mutagenic effect was found in various tests with microorganisms and mammalian cell culture.

The substance was not mutagenic in studies with mammals.

12. Ecological information

Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer

Toxicity to fish:

DIN 38412 Part 15 static

Leuciscus idus/LC50 (96 h): > 10.000 mg/l

Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer

Microorganisms/Effect on activated sludge:

OECD Guideline 209 aerobic

activated sludge, industrial/EC20 (0,5 h): > 1.995 mg/l

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Persistence and degradability

Elimination information

Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer

Test method: OECD Guideline 302 B (aerobic), activated sludge, industrial

Method of analysis: DOC reduction

Degree of elimination: < 10 % (15 d)

Evaluation: Poorly eliminated from water.

Bioaccumulation potential

Information on: 2-Pyrrolidinone, 1-ethenyl-, homopolymer

Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

13. Disposal considerations

Observe national and local legal requirements.

14. Transport information

Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGVSee ICAO/IATA)

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

not subject to labelling

16. Other information

Reference:USP/NF,Ph.Eur,BP,JP.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.