

M A T E R I A L S A F E T Y D A T A S H E E T

Revision Date: March 15, 2007

Section 1. ----- chemical identification-----

name: chemical nature : polyvinylpyrrolidone

Section 2. ----- composition/information on ingredients -----

cas-no.: 9003-39-8

inci-name : pvp-K

Section 3. ----- hazards identification -----

critical hazards to man and the environment : none

Section 4. ----- first-aid measures-----

no special measures necessary

Section 5. ----- fire fighting measures -----

suitable extinguishing media: water spray

the following can be given off in a fire :

nitrogen, e.g.nox,

carbon dioxide, co2

hydrogen cyanide

special protective equipment : in case of fire, wear a self-contained breathing apparatus.

Section 6. ----- accidental release measures-----

personal precautions : avoid dust formation.

environmental precautions : no special measures necessary.

methods for cleaning up : sweep/shovel up.

Section 7. ----- handling and storage-----

handling

protection against fire and explosion

avoid dust formation

take precautionary measures against STATIC DISCHARGES

the usual precaution for the handling of chemicals must be observed:

storage

keep tightly sealed

keep in a dry place

storage temperature : keep in room temperature and not higher than 45°C

Section 8. ----- exposure controls/personal protection-----

components with workplace control parameters:

product contains as residual monomers :

1- vinyl-2-pyrrolidone

personal protective equipment

respiratory protection : not necessary ;

hand protection : not necessary ;

eye protection : not necessary .

Section 9. - - - - - physical and chemical properties - - - - -

form : powder

color : white

odor : faint special odor

melting point/melting range : more than 130°C(decomposition)

flash point : more than 215°C

ignition temperature : more than 425°C

density (20°C): 1.2g/cm³ approx.

solubility :

a .solubility in water : more than 270 g/l

b. solubility in other solvent : soluble in many organic solvent

ph value (10% solution in water) : 3.0-7.0

Section 10. - - - - - stability and reactivity - - - - -

thermal decomposition : more than 130°C

hazardous reactions : dust explosion hazard.

Section 11. - - - - - toxicological information - - - - -

acute toxicity :

ld50 : more than 2000mg/kg

primary skin irritation (rabbit) : non-irritant

primary mucous membrane irritation (rabbit's eye) : non-irritant

additional information :

in our experience and according to information available to us the products is not harmful to health provided it is correctly handled and processed according to the given recommendations.

Section 12. - - - - - ecological information - - - - -

data not yet available.

Section 13. - - - - - disposal considerations - - - - -

dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

observe local environmental regulations.

Section 14. - - - - - transport information - - - - -

not classified as hazardous under transport regulations

Section 15. - - - - - regulatory information - - - - -

europaean information

caution: substance not yet fully tested.

Section 16. - - - - - other information- - - - -

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Our company shall not be held liable for any damage resulting from handling or from contact with the above product.