IDENTIFICATION

MSDS Record Number: 5503119
Product Name(s): Polyvinylpyrrolidone
Product Identification: Article number: 9702962
Date of MSDS: 2007-02-05
Currency Note: This MSDS was acquired from the supplier on 2007-05-08.

MANUFACTURER/SUPPLIER INFORMATION

Company: BIO-RAD LABORATORIES LTD

MATERIAL SAFETY DATA

Safety Data Sheet According to 91/155 EEC

Printing date 05/03/2007
Revision: 05/02/2007

+ 1 Identification of substance:
+  1. Product details:
+  2. Trade name: Polyvinylpyrrolidone
+  3. Article number: 9702962
+  4. Application of the substance / the preparation Laboratory chemicals
+  5. Manufacturer/Supplier:
+  7. 5671 McAdam Road
+  8. Mississauga, Ontario L4Z 1N9
+  10. Information department: Technical services, customer support.
+  11. Emergency information: 1(905)712-2771
+  2 Composition/information on ingredients
+  3. Chemical characterization:
+  4. CAS No. Description:
+  5. 9003-39-8 Polyvinylpyrrolidone
+  6. Identification number(s):
EINECS Number: 201-800-4

Additional information:

For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- Hazard description: not applicable
- Information pertaining to particular dangers for man and environment
  - not applicable

4 First aid measures

- General information No special measures required.
- After inhalation
  - Supply fresh air; consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.
- After eye contact
  - Rinse opened eye for several minutes under running water.
- After swallowing Induce vomiting and call for medical help.

5 Fire fighting measures

- Suitable extinguishing agents
  - Use fire fighting measures that suit the environment.
- Protective equipment: No special measures required.

6 Accidental release measures

- Person-related safety precautions: Not required.
- Measures for environmental protection:
  - Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting: Pick up mechanically.

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Trade name: Polyvinylpyrrolidone

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- Additional information: No dangerous substances are released.

7 Handling and storage

- Handling
  - Information for safe handling:
    - No special measures required.
    - Prevent formation of dust.
    - No special precautions are necessary if used correctly.
    - Information about protection against explosions and fires:
      - No special measures required.

- Storage
  - Requirements to be met by storerooms and receptacles:
    - According to product specification
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: None.

8 Exposure controls and personal protection

- Additional information about design of technical systems:
No further data; see item 7.

Components with limit values that require monitoring at the workplace:
Not required.

Additional information:
The lists that were valid during the creation were used as basis.

Personal protective equipment

General protective and hygienic measures
The usual precautionary measures should be adhered to when handling chemicals.

Breathing equipment:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands: Protective gloves.

Material of gloves Synthetic gloves

Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

9 Physical and chemical properties:

General Information

Form: Solid.
Colour: Whitish
Odour: Odourless

Value/Range  Unit  Method
Change in condition
Melting point/Melting range: undetermined
Boiling point/Boiling range: undetermined

(Contd. on page 3) CDN +

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Trade name: Polyvinylpyrrolidone

(Contd. of page 2)

Flash point:  > 100 ° C

Flammability (solid, gaseous)  Product is not flammable.

Danger of explosion:
Product does not present an explosion hazard.

Density:  Not determined

Solubility in / Miscibility with
Water:  Fully miscible
Organic solvents:  0.0 %
Solids content:  100.0 %

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:
11 Toxicological information

- Acute toxicity:
  - Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.
  - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    - When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
    - The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information:

- General notes:
  - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
  - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- Product:
  - Recommendation Hand over to hazardous waste disposers.
  - Uncleaned packagings:
    - Recommendation:
      - Disposal must be made according to official regulations.

14 Transport information

- Land transport ADR/RID (cross-border)
  - ADR/RID class: -

- Maritime transport IMDG:
  - IMDG Class: -

- Marine pollutant: No

- Air transport ICAO-TI and IATA-DGR:
  - ICAO/IATA Class: -

- Transport/Additional information:
  - Not dangerous according to the above specifications.

15 Regulations
• Markings according to EU guidelines:
  The substance is not subject to classification according to EU lists
  and other sources of literature known to us.
  Observe the general safety regulations when handling chemicals
  The product is not subject to identification regulations under EU
  Directives and the Ordinance on Hazardous Materials (GefStoffV).

• Safety phrases: 22 Do not breathe dust.

• National regulations
  This product has been classified in accordance with the hazard criteria
  of the Controlled Products Regulations and the MSDS contains all of the
  information required by those regulations.

• Water hazard class:
  Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

This information is based on our present knowledge. However, this shall
not constitute a guarantee for any specific product features and shall
not establish a legally valid contractual relationship.

• Department issuing MSDS: Environmental Health and Safety.
  Contact:
  Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel
  Drive, Hercules, California, 94547: 1(510) 741-1000
  Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel
  Drive, Hercules, California, 94547: 1(510) 724-7000

October, 2007 Issue

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