



Safety Data Sheet

Version 04 Revision Date: 2024-12-12

Effective Date: 2025-01-01

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifiers

Product name: Poly(1-vinylpyrrolidone-co-vinyl acetate)

Brand name: PolyViscol® VA64

CAS-No.: 25086-89-9

REACH Registration No.: A registration number is not available for this substance as polymers are exempted from REACH registration.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances.

1.3 Details of the supplier of the safety data sheet

Company: Boai NKY Pharmaceuticals Ltd.

Address: No.1888 East Wenhua Road, Boai, Jiaozuo, Henan Province, China 454450.

Tel.: +86 391 8696320

Fax: +86 391 8692950

Email address: sales@boai-nky.com

1.4 Emergency telephone number

Emergency Phone #: +86 22 58316066

2. Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous substance or mixture according to United Nations Globally Harmonized System (GHS).

2.2 Label elements and warnings:

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

2.3 Other hazards but not classified:

Under certain conditions, the product can form a dust explosion. This product does not contain substances that meet the PBT (persistence, bioaccumulation, toxicity) or VPVB (high persistence, bioaccumulation) requirements.

The product does not contain any substances listed on ECHA Candidate List having endocrine disruptor properties or any substances identified as an endocrine disruptor defined in Regulations (EC) 2017/2100 or (EC) 2018/605.

3. Composition/Information on Ingredients

3.1 Substances

Synonyms: Acetic acid ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone; Vinylpyrrolidone/vinyl acetate copolymer; PVP/VA Copolymer.

Formula: $(C_{10}H_{15}NO_2)_x$

CAS-No.: 25086-89-9

Product identifier type in accordance	Identification Number	Substance name	Weight % content (or	EC Number	SCL/M-factor /ATE
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with Article 18(2) of Regulation (EC) No 1272/2008			range)		
CAS Number	25086-89-9	PVP/VA Copolymer	>95.0	607-540-1	-

4. First Aid Measures

4.1 Description of first aid measures

General advice

Take off the contaminated clothing.

If inhaled

Keep patient calm and move to fresh air.

In case of skin contact

Wash thoroughly with soap and clean water.

In case of eye contact

Flip the eyelids and wash the stained eyes with running water for at least 15 minutes.

If swallowed

First cough the mouth, and then drink 200-300 ml of water. Medical treatment.

Doctor's precautions

Symptoms: (Further) Symptoms and/or effects are not yet clear

Treatment: Symptomatic treatment (remove dirt, pay attention to vital diseases)

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. Firefighting Measures

5.1 Extinguishing media:

Suitable extinguishing media

Water spray, foam, dry powder

5.2 Special hazards arising from the substance or mixture

Carbon oxide, cyanide, nitrogen oxide

The mentioned substance / substance group will be released upon fire.

5.3 Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

5.4 Further information

Dispose of fire debris and contaminated fire water in accordance with official regulations.

6. Accidental Release Measures

6.1 Personal precautions protective equipment and emergency procedures



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Avoid dust formation. Avoid breathing vapors, mist or gas. Use personal protective equipment. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

The product can have a dust explosion. Prevent static electricity-away from fire-fire extinguisher nearby. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the Standard EN374 derived from it.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances,



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and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts is desired, use Type N95 (US) or Type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (RU).

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Physical state	Solid, Powder
b) Colour	White or off white
c) Odour	Faint specific odour
d) Melting point/freezing point	>130°C
e) Boiling point or initial boiling point and boiling range	>130°C (Decomposition)
f) Flammability	Not highly flammable
g) Lower and upper explosion limit	Not applicable
h) Flash point	Not applicable
i) Auto-ignition temperature	Not applicable
j) Decomposition temperature	>130°C
k) pH	3.0~7.0 (1g in 20 mL)
l) Kinematic viscosity	Not applicable
m) Solubility	>300 g/L (20°C)
n) Partition coefficient n-octanol/water (log value)	Not determined
o) Vapor pressure	Not applicable
p) Density and/or relative density	250-450 kg/m ³ (DIN EN ISO 60)
q) Relative vapor density	Not applicable
r) Particle characteristics	Dv50: 75-95µm (by Malvern 3000)

9.2 Other information

No data available.

9.2.1 Information with regard to physical hazard classes

10-30 mJ, Inductivity: 1 mH (VDI 2263, sheet 1, 2.1.1)

The product is capable of dust explosion.

9.2.2 Other safety characteristics

No data available.

10. Stability and Reactivity

10.1 Reactivity

No data available



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10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents, Strong bases.

10.6 Hazardous decomposition products

Other decomposition products-no data available

11. Toxicological Information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Acute toxicity evaluation: Actually single ingestion is non-toxic.

Experimental/calculated data: Semi-lethal dose rats (oral): > 10,000 mg/kg

Irritation

Evaluation of stimulus effect: No irritation to the skin. No irritation to the eyes.

Experimental/calculated data: Skin corrosive / irritating rabbit: non-irritant

Severe eye damage / irritation rabbit: non-irritant

Respiratory or skin sensitization

Evaluation of sensitization: Skin sensitization was not observed in the animal studies.

Experimental/calculated data: Guinea-pig Maximum volume test Guinea-pig: (OECD Test Guide 406)

Germ cell mutagenicity

Mutagenicity evaluation:

No mutagenic effects were found in multiple assays on bacterial and mammalian cell cultures. This substance was not mutagenic in mammalian studies.

Carcinogenicity

Carcinogenicity evaluation: No data are available on the carcinogenic effects.

Reproductive toxicity

Reproductive toxicity evaluation:

No data available

Developmental toxicity

Malform evaluation:

Animal studies have shown no developmental toxicity or teratogenicity.

Repeated dose toxicity and specific target organ System toxicity (repeated exposure)

Repeated dose toxicity: No data available

Inhalation hazard

No data available



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11.2 Information on other hazards

The product does not contain any substances listed on ECHA Candidate List having endocrine disruptor properties or any substances identified as an endocrine disruptor defined in Regulations (EC) 2017/2100 or (EC) 2018/605.

12. Ecological Information

12.1 Toxicity

Aquatic toxicity evaluation:

If introduced into the biological treatment system at an appropriate low concentration, the inhibitory effect on the degradation activity of activated sludge is not foreseen. The product is likely to be not acutely harmful to aquatic life.

Toxicity to fish:

Semi-lethal concentration (96 h) > 10,000 mg/l, zebrafish (OECD 203 program, static, electrostatic)

Aquatic invertebrates:

Semi-effective concentration (48 h) > 100 mg/l, large fleas (EEC Guidelines 79/831/EEC, static, electrostatic)

Hydrophyte:

Semi-effective concentration (72 h) > 100 mg/l (number of organisms per unit area or volume), *Scenedesmus subspicatus* (OECD Guideline 201, static, electrostatic)

Activity against microbes / activated sludge:

No data available

Chronic toxicity to fish:

No data available

Terrestrial toxicity evaluation:

No data available

12.2 Persistence and degradability

Biodegradation and elimination Evaluation (H20): Difficult to remove from water.

Eliminate information: Approximately 20-30% dissolved organic carbon reduction method (15 days) (OECD policy 302 B) (aerobic, domesticated activated sludge) is difficult to remove from water.

Assessment of stability in water: No data available

12.3 Bioaccumulation potential

Bioaccumulation potential:

The structure of the polymer determines that it cannot be used for biological purposes. The biocumulative effects were not foreseen.

12.4 Mobility in soil

Evaluation of chemical conversion between different environmental media:

Substances do not evaporate from the water meter into the atmosphere. Adsorption to the solid soil phase was not foreseen.

12.5 Results of PBT and vPvB assessment



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PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Endocrine disrupting properties

The product does not contain any substances listed on ECHA Candidate List having endocrine disruptor properties or any substances identified as an endocrine disruptor defined in Regulations (EC) 2017/2100 or (EC) 2018/605.

12.7 Other adverse effects

No data available.

13. Disposal Considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. Transport Information

14.1 UN number or ID number

ADR/RID: -- IMDG: -- IATA: --

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -- IMDG: -- IATA: --

14.4 Packing group

ADR/RID: -- IMDG: -- IATA: --

14.5 Environmental hazards

ADR/RID: -- IMDG: Marine pollutant: no IATA: --

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

Not harmful goods.

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and Regulation (EU) 2020/878 .

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical safety assessment



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No chemical safety assessment has been carried out for this substance by the supplier.

16. Other Information

Further information

The above information is believed to be correct, but does not intend to be all-inclusive and shall be used only as a guide. This material safety data sheet is based on our current knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any assurances on product properties and does not constitute a contractual legal relationship.

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