

Version 01 Issuing Date: 2019-11-16

Review Date: 2021-04-14

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

1.1 Product identifiers

Product name: VP/ VCap Copolymer 30% Water Solution

Trade name: NKY® VP/VCap

VP/VCap Copolymer CAS-No.: 51987-20-3

Water CAS-No.: 7732-18-5

Other names: COPOLYMER: 1-VINYL-2-PYRROLIDONE AND VINYL CAPROLACTAM

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

Identified uses: Application in personal care and industry.

Uses advised against: No data available

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

Service hours: Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).

2. Hazards Identification

2.1 Classification of the substance or mixture

Not classified.

2.2 GHS label elements, including precautionary statements

The product does not need to be labelled in accordance with EC directives or respective national laws.

Pictogram(s) No symbol
Signal word No signal word

Hazard statement(s) None

Precautionary statement(s)

Prevention None
Response None
Storage None
Disposal None

2.3 Other hazards which do not result in classification

No data available

3. Composition/Information on Ingredients

3.1 Substances

Chemical name	Common	names	and	CAS number	EC number	Concentration



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	synonyms			
Water	Water	7732-18-5	231-791- 2	68%-72%
1-ethenylazepan-2-o				
ne,1-	Vinylpyrrololidone/	51007.20.2	NT/A	200/ 220/
ethenylpyrrolidin-2-	Vinylcaprolactam Copolymer	51987-20-3	N/A	28%-32%
one				

4. First Aid Measures

4.1 Description of necessary first aid measures

General advice

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

If swallowed

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available.

6. Accidental Release Measures

6.1 Personal precautions protective equipment and emergency procedures



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Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. Handling and Storage

7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Occupational Exposure limit values

No data available

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

No data available



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9. Physical and Chemical Properties

9.1 Information on basic physical and chemical propert
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Physical state liquid, viscous b) Colour light yellow

c) Odour faint odour, characteristic

No data available

 0° C d) Melting point/freezing point

e) Boiling point or initial boiling point 100°C(lit.)

and boiling range

No data available Flammability

g) Lower and upper explosion limit /

flammability limit h) Flash point 100℃

No data available Auto-ignition temperature i) Decomposition temperature No data available j) 6-8 (as is, 23°C) Kinematic viscosity No data available 1)

soluble m) Solubility

n) Partition coefficient

No data available n- octanol/water

27mbar (2337°C) o) Vapour pressure p) Density and/or relative density 1.06g/mL at 20°C

q) Relative vapour density <1 (vs air)

r) Particle characteristics No data available

10. Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Aviod extreme heat

10.5 **Incompatible materials**

No data available

10.6 Hazardous decomposition products

The product is chemically stable

11. Toxicological Information

11.1 Information on toxicological effects



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Acute toxicity

Oral: LD50/rat: > 2,000 mg/kg Inhalation: no data available Dermal: no data available Skin corrosion/irritation

No corrosion, no irritati

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

12. Ecological Information

12.1 Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulation potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No data available

13. Disposal Considerations

13.1 Disposal methods



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Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14. Transport Information

14.1 UN number

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

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: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.4 Packing group, if applicable

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.5 Environmental hazards

No data available

14.6 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

15. Regulatory Information

This safety data sheet is compiled according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – Sixth revised edition.

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

Chemical name	Common names and synonyms	CAS number	EC number
Water	Water	7732-18-5	231-791-2
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed.
EC Inventory			Not Listed.



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United States Toxic Substances Control Act (TSCA) Inventory	Not Listed.
China Catalog of Hazardous chemicals 2015	Not Listed.
New Zealand Inventory of Chemicals (NZIoC)	Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Not Listed.
Vietnam National Chemical Inventory	Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Not Listed.

Chemical name	Common names and synonyms	CAS number	EC number
1-ethenylazepan-2-one,	Vinylpyrrololidone (VP) /		
1-ethenylpyrrolidin-2-o	Vinylcaprolactam Copolymer	51987- 20-3	-
ne	(VCap)		
European Inventory of Ex	Not Listed.		
EC Inventory	Not Listed.		
United States Toxic Subst	Not Listed.		
China Catalog of Hazardo	Not Listed.		
New Zealand Inventory o	Not Listed.		
Philippines Inventory of C	Not Listed.		
Vietnam National Chemic	Not Listed.		
Chinese Chemical Invent	Not Listed.		

15.2 Safety, health and environmental regulations/legislation specific for the substance or mixture No data available.

15.3 Chemical safety assessment

No data available.

16 Other Information

Further 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. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.

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