

1. IDENTIFICATION OF CHEMICAL PRODUCTS AND INFORMATION ON THE MANUFACTURER AND / OR SUPPLIER

Technical name	Polyvinylpyrrolidone high molecular "Polydon" (brands: "Polydon" -AM; Polydon-A; Polydon-A-1; Polydon-B; Polydon-B-2; "Polydon" -C; Polydon -MD; Polydon -LK; "Polydon" -RTC)
Brief recommendations for use	It is used as a solubilizer, antiresorbent, complexing agent, dye transfer inhibitor in the production of synthetic detergents and household chemicals, as a dispersant in the paint industry, as a solubilizer, emulsion and suspension stabilizer and enhancer of action of BAS in the production of cosmetics and oral care products, as a stabilizing and moisturizing component in the production of solid soap, as a gel-forming base for ointments and creams, as lubricant in the production of basalt filaments and fiberglass, etc.
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2. GHS HAZARDS IDENTIFICATION

Classification of warning labeling	none
Signal word	none
Danger Symbols	none
H-phrases	none
P-phrases	none

3. CONTENT / INFORMATION ON INGREDIENTS

Components	Concentration (%)	CAS number	EC number
Poly-1-ethenylpyrrolid-2-one	5-27	9003-39-8	201-800-4
Water	73-95	7732-18-5	231-791-2

4. FIRST AID MEASURES

Eye contact	Remove contact lenses if you use them, and if it is easy to do, rinse thoroughly with plenty of water.
When exposed to the skin	Wash off with water.
If swallowed	none
Inhalation	none
Most important symptoms	none
Potential hazardous effects	none

5. FIRE FIGHTING MEASURES

Flammability	Non-flammable substance
Thermal decomposition products	Oxides of carbon with involvement in the packaging process
Fire and explosion safety	Not achieved
Extinguishing methods	When involved in the packaging process. Carbon dioxide or foam is recommended. It is recommended to use sprayed jets to cool or protect open materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Water may not be effective for extinguishing if it is not used in favorable conditions by experienced firefighters.
Specificity for extinguishing	Use spray jets to cool containers under fire and to protect personnel. Isolate the immediate area of danger and withdraw personnel. Spray jets used to protect personnel. Avoid the spread of flammable liquids used for cooling. For fires outside the initial stage, emergency rescuers in the immediate danger zone must wear protective clothing. When the potential chemical hazard is

unknown, in closed or enclosed areas, or, when explicitly required by the regulations, an autonomous breathing apparatus must be worn. Wear other suitable protective equipment as required.

6. MEASURES FOR ACCIDENTAL EMISSION / LEAKAGE

Individual precautions	Use personal protective equipment. Provide effective ventilation, especially in enclosed spaces.
Environmental precautions	Eliminate the leakage if possible. If the product gets into open water and sewers, it is necessary to inform the relevant authorities about this. Avoid release to the environment.
Contamination and cleaning	In case of soil contamination, remove contaminated soil for restoration or removal in accordance with current regulations.

7. HANDLING AND STORAGE

Precautions and safe handling	For personal protection measures see section 8. Provide effective ventilation. Products can be transported by all modes of transport.
Precautionary measures	Observe the usual fire safety measures.
Safe storage	The measures must be taken to protect the container from damage and precipitation during storage. Products are stored on racks, pallets or in piles in closed dry and well-ventilated warehouses at temperatures from -5 ° C to 50 ° C and a relative humidity of not more than 90%. The container should be placed with lids at a distance of at least 0.5 m from external walls and at least 2 m from sources of heat and fire in conditions that exclude exposure to water, corrosive media (oxidizers, acids, alkali)

8. PERSONAL PROTECTIVE EQUIPMENT

Personal protection Equipment Management	The potential hazard of this material, permissible exposure limits, work and other substances at the place of operations should be considered when designing technical means of control and choosing personal protective equipment.
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Personal protective equipment
Eye protection



Respiratory protection
Hand protection

Not required



Special means

None

9. PHYSICO-CHEMICAL PROPERTIES

Specifications	Indicators
Form	viscous fluid
Color	colorless or slightly colored
Smell	specific
pH:	5-11
Melting point / freezing point	-2°C - 0°C
Initial boiling point and boiling point	100°C /100°C

Relative density	1,0-1,02
Viscosity	150-60000 cPs

10. STABILITY AND REACTIVITY

Chemical stability	The product is stable
Solubility	Soluble in water

11. TOXICITY INFORMATION

Acute toxicity	DL50 > 5000 mg/kg (mice, oral) DL50 > 2500 mg/kg (mice, dermal)
Respiratory or skin sensitization	With prolonged exposure may cause irritation of the skin, eyes. Does not cause skin sensitization. Does not possess resorptive action
Mutagenicity	No data indicating that the product or any components present in an amount greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered a carcinogen IARC, ACGIH, NTP or OSHA. OSHA specially regulated substances (29 CFR 1910.1001-1050). Not listed.
Reproductive toxicity	This product does not have reproductive toxicity and teratogenic effects.
Specific target organ toxicity - single exposure	CL50 human is not reached
Specific target organ toxicity - repeated exposure	No information
Aspiration hazard	No information
Chronic effects	No information

12. ECOLOGICAL INFORMATION

Aquatic microorganisms	No data available
Persistence and Degradability	Slowly decomposed
Bioaccumulative potential	It accumulates in organisms in small quantities.
Soil mobility	
Other side effects	No other adverse environmental impacts (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. WASTE HANDLING

	Recover or recycle if possible. It is the responsibility of the originator of this document to determine the toxicity and physical properties of the material generated in such a way as to properly classify the waste and to ensure that the disposal methods comply with current regulations. Before using the product, you must familiarize yourself with all local, state, federal and regional regulations. Store the product in accordance with the requirements set out in Section 7 (Handling and Storage). Permitted to dispose of by controlled combustion. Dispose of in accordance with all federal, state and local regulations.
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14. TRANSPORT INFORMATION

14.1 UN number (UN)	none
14.2 Proper shipping and transport name	<i>Proper shipping name:</i> none <i>Transport name:</i> Polyvinylpyrrolidone high molecular "Polydon" (brand: Polydon-AM; Polydon-A; Polydon-A-1; Polydon-B; Polydon-B-2; Polydon-C; Polydon -MD; Polydon"-LK; Polydon -RTC)
14.3 Danger Types of transport risk types <i>International Civil Aviation Organization / International Air Transport Association (ICAO / IATA)</i> Danger / Class / Division	None

Environmental hazards	None
Marks	None
International Maritime Dangerous Goods Code (IMDGC)	
Danger / class / division	None
Hazardous to the aquatic environment	-
Marks	None
Intergovernmental Organization for Rail Transport (RID) / European Agreement on the Transport of Dangerous Goods (ADR)	
Danger / class / division	None
Marks	None
Code	None
14.4 Group packing	not appointed
14.5 Environmental hazards	
14.6 Bulk transportation in accordance with Annex II to the International Convention for the Prevention of Pollution from Ships (MARPOL) 73/78 and the code of the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemical Cargoes in Bulk (MOC)	No requirements
14.7 Special precautions	None

15. REGULATORY INFORMATION

Intergovernmental Organization for Rail Transport (RID)
 European Agreement on the Transport of Dangerous Goods (ADR)
 International Air Transport Association
 (ICAO / IATA)
 International Maritime
 Dangerous Goods Code
 (IMDG)

16. ADDITIONAL INFORMATION

We believe that the information contained herein is current as of the date of this Material Safety Data Sheet and is offered in good faith. Since the use of this information and these opinions and the conditions of use of the product are not under the control of «Orgpolymersynthese St.Pb.» Ltd, it is the user's obligation to determine the conditions for safe use of the product.

Information provided by:: «Orgpolymersynthese St.Pb.» Ltd

Actual date: 16.04.2019

Protection clause: The information provided in this Material Safety Data Sheet is based on data that is believed to be accurate as of the preparation date of this Material Safety Data Sheet. No liability is accepted for any damage or injury caused by abnormal use or due to non-compliance with recommended practices. The above information and product are provided on condition that the person receiving them must make their own determination as to the suitability of the product for their specific purpose and provided that they assume the risk of product use. In addition, no permission is granted or implied for the application of any patented invention without a license. It is assumed that the above information is accurate and reflects the information available to the manufacturer. However, this does not entail guarantees for all the specific characteristics of the goods and does not serve as a basis for the emergence of contractual relations from a legal point of view. The current laws and regulations must be followed by the manufacturer's successor under his responsibility.

General Director of
Orgpolimersintez Spb LLC

Place of seal

