



MATERIAL SAFETY DATA SHEET

Date: 30.05.2019

I – IDENTIFICATION OF THE PRODUCT AND COMPANY

Trade Name	Sealing threaded compound "PASTUM" "PASTUM H ₂ O", "PASTUM gas" + linen
Purpose	PASTUM is applied together with flax, for sealing of threaded pipe connections on potable water systems, heating and gas systems in pressure and temperature range of up to 0.8 MPa (8 bar) and up to 140°C.
Producer	VMPAUTO LLC
Address	Promyshlennaya str. 40A, 198099, Saint-Petersburg, Russia
Tel/Fax: E-mail	+7 (812) 601-05-50 / 601-05 59, export@vmpauto.com

II – HAZARDS IDENTIFICATION

Classification	The material is not hazardous as defined in TC 2257-032-45540231-2009 from 10.07.2009
Hazard for health	It is not hazardous for health under usual application conditions.
Hazard in handling	It is not flammable substance but in contact with fire burns.
Ecological hazard	It is not classified as hazardous substance for environment.

III – COMPOSITION

Chemical composition	Product is a composition of mineral oil, emulsifier, inhibitor of corrosion and filler. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Components</th> <th style="text-align: center;">CAS number</th> </tr> </thead> <tbody> <tr> <td>Mineral oil I20</td> <td>8042-47-5</td> </tr> <tr> <td>Emulsifier</td> <td>102-71-6</td> </tr> <tr> <td><i>Fillers:</i></td> <td></td> </tr> <tr> <td>Talc</td> <td>14807-96-6</td> </tr> <tr> <td>Kaolin</td> <td>1332-58-7</td> </tr> </tbody> </table>	Components	CAS number	Mineral oil I20	8042-47-5	Emulsifier	102-71-6	<i>Fillers:</i>		Talc	14807-96-6	Kaolin	1332-58-7
Components	CAS number												
Mineral oil I20	8042-47-5												
Emulsifier	102-71-6												
<i>Fillers:</i>													
Talc	14807-96-6												
Kaolin	1332-58-7												

IV – FIRST-AID MEASURES

General information	It is not hazardous for health under usual application conditions.
Eyes	Washout eyes with big quantity of water during 15 minutes. If irritation continues, consult a doctor.
Skin	Take off dirty dress. Polluted skin washout with soap.
Anatomical airways	Go outside. If breathing is difficult – consult a doctor.
Digestive system	Vomiting is not necessary. If health is worth, consult a doctor.

V- MEASURES AND MEANS OF PROVIDING FIRE AND EXPLOSION HAZARD

General information	It is not hazardous for health under usual application conditions.
Eyes	Washout eyes with big quantity of water during 15 minutes. If irritation continues, consult a doctor.
Skin	Washout skin with big quantity of water during 15 minutes. If irritation continues, consult a doctor.
Anatomical airways	Take off dirty dress. Polluted skin washout with soap.



MATERIAL SAFETY DATA SHEET

Digestive system	As a rule, therapy is not necessary, excluding swallowing of big product's quality. Nevertheless, consult a doctor.
------------------	---

VI- MEASURES OF PREVENTING AND LIQUIDATION OF ACCIDENTS AND EMERGENCES

Avoid contact of substance with skin and eyes. Scattered product is swamped with sand, clay or other inertial material is scooped up mechanically in a separate container. Utilize proper way. It doesn't let product get in drinking sources on water pools surfaces, sewerage and soil.

VII- STORAGE REGULATIONS OF CHEMICAL PRODUCTION AND ITS TREATMENT UNDER HANDLING OPERATIONS

General safety rules	Utilize proper way any polluted rag or wiping material to avoid fire.
Handling	When this product is under operation it is necessary to apply standard industrial equipment and avoid contact with skin and eyes, using means of individual protection. Use rubber gloves.
Storage	Store in a dry place away from all sources of heat, including direct heat. Container with product is stored closed tuff in cold good ventilated place, far away from heat sources. Storage temperature is from 0 °C до +30 °C.
Recommended materials	As materials for production of container soft steel is used, aluminum foil or polythene of high density.
Incompatible materials	Avoid usage of container made from polyvinylchloride (PVC).

VIII- CONTROL MEASURES FOR HAZARDS AND MEANS OF INDIVIDUAL PROTECTION

General information	Under normal use of "PASTUM" preparation, product is stable and it doesn't require special protective equipment. Preparation of "PASTUM" is related to hard-combustible and low-toxic products.
Protection of breathing	It is not required under right application.
Protection of eyes	Use protective glasses or mask if spraying is possible.
Protection of skin	If contact of substance is possible with hands skin, in this way apply gloves made from oil resistant materials (PVC, neoprene, nitrile rubber).

IX – PHISICAL AND CHEMICAL PROPERTIES

Parameters	Viscous sealing threaded compound from beige to taupe color.
Penetration: 0,1 mm	270-360
Colloid stability %, not more	10-20
Corrosion effluence on metals (steel, brass)	Absence
Solubility in water	Not soluble

X – STABILITY AND REACTION CAPACITY

Chemical stability	Material is stable under normal use conditions and storage.
Hazard of polymerization	Not hazardous
Incompatibility	With strong oxidants
Hazardous products of decomposition	Under normal storage conditions, formation of hazardous products is not supposed.

XI –TOXICOLOGICAL INFORMATION

Sealing threaded compound is not hazardous for organism and relates to III Class of Hazard (substances are moderately hazardous as in GOST 12.1.1007



MATERIAL SAFETY DATA SHEET

Irritation of skin	It is not irritabile
Irritation of eyes	Slight irritation
Other toxicological information	MPC in air is: mineral oil – 5mg/m ³ ; triethalonamine - 5mg/m ³ ; oleic acid - 5mg/m ³ Information is based on properties of raw materials. This product was not tested on animals. It is not proved its carcinogenic or mutagenic property.

XII – ECOLOGICAL INFORMATION

Eco-toxicological data were not received specially for this product. The information above is based on knowledge of components and results of eco-toxicological research of analogue products.

Acute toxicology	Sealing threaded compound is considered non-toxic. In water and air in the presence of other substances of toxic compounds.
Movement	Product is not mixed with water. Under penetration in soil it is absorbed with its particles.
Stability	Product is not fast bio-degradable. Basic components are bio-degradable, but product has non bio-degradable substances.
Bio-accumulation	Some components can accumulate in alive organisms.
Other impacts	It is not supposed a possibility of destruction of ozone layer and influence on global warming.

Protection of environment is provided under production with hermetically sealed technical equipment. Liquid and solid wastes are absent.

XIII – RECOMMENDATIONS FOR WASTE UTILISATION (REMAIDERS)

Wastes (remainders) place in strictly labeled container for next utilization and regeneration. Any means of actions with wastes must be appropriate to all local and public laws and normative acts.

XIV – INFORMATION AT TRANSPORTATIONS (SHIPMENT)

Properties of transportation UN number Hazard class	It is not classified as a hazardous load. N/A N/A
ADR/RID (Road transport) IMDG (Sea transport) IATA (Air transport)	It is not subjected to norm ADR/RID It is not subjected to technical conditions IMDG It is not subjected to norms IATA
Transportation properties	Product can be transported with any transport It is not classified as a hazardous load
UN number	N/A
Hazard class	N/D
Symbol	N/D
Package group	N/D
IMDG	It is not classified as a hazardous load



MATERIAL SAFETY DATE SHEET

IATA/DGR Limits	It is not classified as a hazardous load
Product can be transported with any transport.	
XV – NATIONAL AND INTERNATIONAL LAGISLATION	
<p>Laws of Russian Federation: “About technical regulation”; “About environmental safety”; “About sanitary-epidemiological well-being of the population”. Under the international conventions and agreements it is not subjected.</p>	
XVI – ADDITIONAL INFORMATION	
<p>Contents and form of the given document corresponds to requirements: 1. GOST 30333-2007 “Passport of safety of chemical production. General requirements”. 2. GOST 12.1.007-76 « Harmful substances. Classification and general safety requirements”. 3. GOST 12.1.005-88 «General sanitary-epidemiological requirements to air of working zone”. 4. GN 2.1.5.1315-03 “Maximum permissible concentration of (MPC) of chemical substances in water of water pools for household-drinking and cultural-household water management”. 5. ГOCT 19433-88 «Hazardous loads. Classification and labeling”.</p> <p>Information in this Safety Card corresponds to the latest modern level of our knowledge about product. Product is applied and used in accordance to given advises. Information in this Safety Card does not compile instruction on the workplace. Data contains in the given document have to be opened to any potential users of this product. Utilization recommendations: This product is applied and used as compound for sealing of threaded connections as specified in instruction on package for sealing of threaded connections. Data: Abbreviation: N/A = was not identified; N/D = is not determined.</p> <p>For getting additional information about product, contact Sales Department of VMPAUTO LLC (Tel/Fax: +7 (812) 601 05 59</p>	