Security passport
according to GOST 30333-2007

Talc USP, powder

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SECTION 1: Identification of the chemical product and information about the manufacturer or supplier

1.1 Product Identifier

Identification of the substance	Talc USP, powder
Article number	9326
CAS number	14318-56-5

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

Relevant identified uses:	Laboratory chemicals Laboratory and analytical use
Uses advised against:	Do not use for products that come into contact with food. Do not use for personal (household) purposes.

SECTION 2: Hazard(s) identification

2.1 Physical Hazards — Not classified

Health Hazard	Acute toxicity, inhalation	Category 4
	Carcinogenicity	Category 1A
	Specific target organ toxicity, repeated exposure	Category 1
Environmental Hazard	Not classified	
Hazards identified by OSHA	Not classified	

Signal Word	**Caution**
Hazard Statement	Harmful if inhaled. May cause cancer. Causes damage to organs through prolonged or repeated exposure.

2.2. Precautionary Statements — Before use, read special instructions. Do not use until all safety precautions have been read. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

2.3. Prevention — In case of inhalation: Move person to fresh air and keep comfortable for breathing. If you feel unwell or concerned: Seek medical advice/attention.

2.4. Storage — Keep locked up.

2.5. Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) Not Otherwise Classified (HNOC)	Not classified

Chapter 3: Composition (Information about Components)

3.1 Material Name	Talc
3.2 Substances:	
Substance Name	Magnesium Silicate
Molecular Formula	$H_2Mg_3O_{12}Si_4$
Molar Mass	379,3 g/mol
CAS No	14807-96-6

Chapter 4: First Aid Measures

4.1 Description of First Aid Measures

General Remarks
Remove contaminated clothing.

Inhalation
Move the victim to fresh air and ensure they are in a comfortable breathing position. If necessary, administer oxygen or artificial respiration. Call a toxicological center or doctor if you feel unwell.

Skin Contact
Rinse skin with water/shower. Seek medical attention if irritation develops and persists.

Eye Contact
Do not rub eyes. Gently flush with water for several minutes. Seek medical attention if irritation develops and persists.

Ingestion
Rinse mouth. Seek medical/professional advice if feeling unwell.

Most Important Symptoms/Effects Acute and Delayed	The dust can irritate the respiratory tract, skin, and eyes. Prolonged exposure may lead to chronic consequences.
Indication of Immediate Medical Attention and Special Treatment	Provide general supportive measures and symptomatic treatment. Keep the victim under observation. Symptoms may be delayed.

4.2 General Information

In case of contact or discomfort, seek medical attention. If feeling worse, consult a doctor (if possible, show the label). Ensure medical personnel are informed about the material(s) used and take preventive measures to protect yourself.

Chapter 5: Firefighting Measures

5.1 Fire Extinguishing Measures

Appropriate Fire Extinguishing Agents:

Water Mist. Foam. Dry Chemical Powder. Carbon Dioxide (CO2).

Inappropriate Fire Extinguishing Agents:

Do not use a water stream as a fire extinguisher, as it will spread the fire.

5.2 Special Hazards Arising from the Substance or Mixture

Non-flammable.

5.3 Recommendations for Firefighters

In case of fire, use self-contained breathing apparatus and full protective clothing.

5.4 Specific Hazards Associated with the Chemical Substance

During a fire, hazardous gases may be formed, posing risks to health.

Firefighting Equipment/Instructions:

Use water spray to cool unopened containers.

Specific Methods:

Use standard firefighting procedures and consider the hazard of other materials.

General Fire Hazard:

No unusual fire or explosion hazards noted.

Chapter 6: Measures to Prevent and Address Accidental and Emergency Situations and Their Consequences

6.1 Personal Safety Measures, Protective Equipment, and Emergency Procedures

Keep people away from spills/leaks and upwind. Wear appropriate protective equipment and clothing during cleanup. Do not inhale dust. Use approved NIOSH/MSHA respirator if there is a risk of dust/smoke exposure exceeding exposure limits. Ensure proper ventilation. Notify local authorities if significant spills cannot be contained. For personal protection, refer to section 8 of the safety data sheet.

6.2 Environmental Prevention Measures

Stay away from sewers, surface water, and groundwater.

6.3 Methods and Materials for Containment and Cleanup

Avoid dispersing dust into the air (e.g., clean surfaces with compressed air). Collect dust using a vacuum cleaner with a HEPA filter. Stop the material flow if feasible.

Large Spills: Dampen with water and cover for further disposal. Dispose of the material in a waste container. After product recovery, rinse the area with water.

Small Spills: Sweep or vacuum up the spilled substance and collect it in an appropriate container for disposal.

Never return spilled substances to original containers for reuse. Place the material in appropriate closed containers labeled accordingly. For waste disposal, refer to [disposal instructions].

Other information related to spills and releases:

Place in appropriate containers for disposal.

Chapter 7: Storage Rules for Chemical Products and Handling During Loading and Unloading Operations

7.1 Preventive Measures for Safe Handling

Avoid the formation of dust.

Measures to prevent fire as well as aerosols and dust formation
Removal of dust deposits.

Consultations on industrial hygiene
Wash hands before breaks and after work. Keep away from food, beverages, and animal feed.

7.2 Conditions for Safe Storage Taking into Account Any Incompatibilities

Store in a dry place.

Incompatible substances or mixtures

Follow instructions for combined storage.

Consideration of other recommendations:

Ventilation requirements

Utilize local and general ventilation.

Specific designs for warehouse areas or vessels

Recommended storage temperature: 15 – 25 °C

7.3 Specific Final Use

No information provided.

Chapter 8: Means of Control of Hazardous Impact and Personal Protective Equipment

8.1 Control Parameters

National exposure limits
Occupational exposure limits (permissible exposure limits)
No data available.

The following components are the only product components that have PEL, TLV, or other recommended exposure limits. At this time, other components do not have known exposure limits.
The restrictions on air contaminant content in the Z-1 table of OSHA (29 CFR 1910.1000)

component	type	value	form
Graphite - all forms except graphite fibers are respirable (CAS 7782-42-5)	PEL	5 мг / м3	Respirable fraction

OSHA Table Z-3 (29 CFR 1910.1000)

component	type	value	form
Graphite - all forms except graphite fibers are respirable (CAS 7782-42-5)	TWA	0,1 мг/ м3	Respirable fraction
Talc (Mg3H2(SiO3)4) [inhalable dust] (CAS 14807-96-6)	TWA	0,1 мг/ м3	Respirable fraction
		20 mppcf 2,4 mppcf	Respirable fraction

Components of ACGIH Threshold Limit Values

component	type	value	form
Graphite - all forms except graphite fibers are respirable. (CAS 7782-42-5)	TWA	2 мг/ м3	Respirable fraction
Talc (Mg3H2(SiO3)4) [inhalable dust] (CAS 14807-96-6)	TWA	2 мг/ м3	Respirable fraction

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component	type	value	form
Graphite - all forms except graphite fibers are suitable for inhalation. (CAS 7782-42-5)	TWA	2,5 мг/ м3	Respirable fraction
Talc (Mg3H2(SiO3)4) [inhalable dust] (CAS 14807-96-6)	TWA	2 мг/ м3	Respirable fraction

Biological Exposure Limits

There are no biological exposure limits for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use closed process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits are not established, maintain airborne levels to an acceptable level.

If engineering controls are not adequate to maintain the concentration of dust particles below the occupational exposure limit (OEL), appropriate respiratory protective equipment must be used. If the material is ground, cut, or used in any operation that may generate dust, use appropriate local exhaust ventilation to ensure that the exposure level is below the recommended exposure limits.

Personal Protective Measures, such as Personal Protective Equipment:

Eye/Face Protection

Chemical respirator with organic vapor cartridge, full face mask, dust and mist filter

Skin Protection:

Hand Protection

Use appropriate protective gloves. Chemical-resistant gloves that have been tested according to EN 374 are suitable. It is recommended to check the chemical resistance of the aforementioned protective gloves for specific use, as well as the supplier of these gloves. Times are approximate values measured at 22°C and constant contact. Elevated temperatures due to heated substances, body heat, etc., and the reduction of the effective thickness of the layer during stretching may lead to a significant reduction in breakthrough time. If in doubt, contact the manufacturer. With approximately 1.5 times thicker/thinner layer, the corresponding breakthrough time doubles/halves. The data apply only to pure substances. When transferred to mixtures, they may be considered only as guidance.

Other:

Wear appropriate chemical-resistant clothing. It is recommended to use a waterproof apron.

Respiratory Protection:

Use approved NIOSH/MSHA respirators if there is a risk of dust/smoke exposure at levels exceeding the exposure limits. Chemical respirator with organic vapor cartridge, full face mask, dust and mist filter.

Thermal Hazards:

If necessary, wear appropriate thermal protective clothing.

General Hygiene Considerations:

Adhere to any requirements for medical monitoring. Always follow personal hygiene rules, such as washing after working with the material and before eating, drinking, and/or smoking. Regularly launder work clothing and protective equipment to remove contaminants.

Take recovery periods to regenerate the skin. It is recommended to use preventative skin protection (protective creams/ointments).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on the main physical and chemical properties

Appearance	
aggregate state	Solid
Color	Light gray
Odor	Odorless
State	Powder
Odor threshold	Unavailable
PH	Unavailable
Melting point/Freezing point	Unavailable

Initial boiling point and boiling range	Розрахункова температура 6587,6 °F (3642 °C)
Flash point	Unavailable
Evaporation rate	Unavailable
Combustibility (solid substance, gas)	Unavailable

Upper / lower flammability or explosiveness limit.

Lower flammability limit (%)	Unavailable
Upper flammability limit (%)	Unavailable
Lower explosiveness limit (%)	Unavailable
Upper explosiveness limit (%)	Unavailable

Vapor pressure	It is expected to be 124256.1 gPa.		
Vapor density	Unavailable		
Relative density	Unavailable	Decomposition temperature	Unavailable
Solubility		Viscosity	Unavailable
Solubility (water)	Unavailable	**Other information**	
Partition coefficient (n-octanol/water)	Unavailable	Density	Estimated at 2.66 g/cm³
		Explosive properties	Non-explosive
Autoignition temperature	Design temperature 845.6 °F (452 °C)	Oxidative properties	Non-oxidizing
		Specific gravity	Estimated at 2.67

SECTION 10: Stability and reactivity

10.1 Reactivity

This material does not react under normal environmental conditions.

10.2 Chemical stability

The material is stable under normal environmental conditions and under expected storage and handling conditions regarding temperature and pressure.

10.3 Possibility of hazardous reactions

Strong reaction with: may cause ignition or explosion; strong oxidizer

10.4 Situations to avoid

Keep away from heat sources. Decomposition occurs at temperatures above: >1000°C.

10.5 Incompatible materials

No additional information available.

10.6 Hazardous decomposition products

Hazardous combustion products: See section 5.

SECTION 11: Toxicological information

Information on potential routes of exposure

Inhalation	Harmful if inhaled
Skin contact	Dust may cause eye irritation
Eye contact	Dust may cause eye irritation
Ingestion	Knowledge of health hazard is incomplete

Symptoms associated with physical, chemical, and toxicological characteristics

Information on toxicological effects:

Acute toxicity Harmful if inhaled

Product	Type	Test results
Тальк 80/20		
Гострий		
Усний		
LD50	rat	51280 мг/ кг

Product	Type	Test results
Graphite - all forms except graphite fibers, are respirable (CAS 7782-42-5)		
Acute		
Oral		
LD50	rat	> 10000 мг/ кг

Skin corrosion/irritation	Classification is not possible due to partial or complete lack of data
Serious eye damage	Classification is not possible due to partial or complete lack of data
Respiratory sensitization or skin sensitization	Classification is not possible due to partial or complete lack of data
Respiratory sensitization or skin sensitization	Classification is not possible due to partial or complete lack of data
Respiratory sensitization	Classification is not possible due to partial or complete lack of data
Skin sensitization	Classification is not possible due to partial or complete lack of data
Mutagenicity to germ cells	Classification is not possible due to partial or complete lack of data
Carcinogenicity	May cause cancer.

IARC Monographs. Overall carcinogenicity assessment

Talc (Mg3H2(SiO3)4) (inhalable dust) (CAS 14807-96-6) Possibly carcinogenic to humans

Not classified as carcinogenic to humans

OSHA Regulated Substances (29 CFR 1910.1001-1053) Not specified

National Toxicology Program (NTP) Carcinogen Report Not specified

Reproductive toxicity	Classification is not possible due to partial or complete lack of data
Specific organ toxicity - single exposure	Classification is not possible due to partial or complete lack of data
Specific organ toxicity - repeated exposure	**Causes organ damage through prolonged or repeated exposure**
Aspiration hazard	Classification is not possible due to partial or complete lack of data
Chronic effects	Prolonged inhalation may be harmful. Causes organ damage through prolonged or repeated exposure. Prolonged exposure may result in chronic effects.

SECTION 12: Environmental impact information

12.1 Toxicity	Not classified as hazardous to aquatic environment
12.2 Stability and degradability	Data not available
12.3 Bioaccumulative potential	Data not available

12.4 Mobility in soil	Data not available
12.5 PBT and vPvB assessment results	PBT and vPvB assessment has not been conducted for this material
12.6 Other adverse effects	Data not available

SECTION 13: Disposal

13.1 Waste disposal methods

The material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

13.2 Wastewater disposal - current information

Do not discharge into drains.

13.3 Remarks

Wastes should be separated into categories that can be treated separately by local or national waste management facilities. Please consider relevant national or regional regulations.

SECTION 14: Transport information

	14.1 number OOH	14.2 Proper shipping name (UN)	14.3 Hazard class(es) for transportation	14.4 Packing group	14.5 Environmental hazard
DOT	NDA	Не регулюється	NDA	NDA	NDA
TDG	NDA	Не регулюється	NDA	NDA	NDA
IMO/IMDG	NDA	Не регулюється	NDA	NDA	NDA
IATA/ICAO	NDA	Не регулюється	NDA	NDA	NDA

14.6 Special precautions	Not specified
14.7 Bulk transport according to Annex II of MARPOL 73/78 and IBC	Not specified

14.8 Information concerning each of the UN Model Regulations

Transport of dangerous goods by road, rail, and inland waterways (ADR/RID/ADN) - Additional information

Not subject to ADR, RID, and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Information on national and international regulations

15.1 Safety, health, and environmental regulations/legislation applicable to this substance or mixture

No additional information available.

National regulations

15.2 Regulatory information

Federal regulations in the United States	This product is considered a "hazardous chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

Section 12(b) of TSCA - Export Notification (40 CFR 707, Subpart D)

Not regulated

List of hazardous substances under CERCLA (40 CFR 302.4)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

OSHA Regulated Substances (29 CFR 1910.1001-1053)

Not regulated

Superfund Amendments and Reauthorization Act (SARA) of 1986

SARA 302 Extremely Hazardous Substance

Not regulated

Classified Hazard Categories	Acute toxicity (any route of exposure) Carcinogenicity Specific target organ toxicity (single or repeated exposure)

SARA 311/312 Hazardous Chemical ТАК

SARA 313 (TRI reporting) - Not regulated

Other federal regulatory acts

Clean Air Act (CAA), Section 112, List of Hazardous Air Pollutants (HAPs)

Not regulated

Clean Air Act (CAA), Section 112(r) - Prevention of Accidental Releases (40 CFR 68.130)

Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

Country	Inventory	Status
AU	AICS	The substance is included.
CA	DSL	The substance is included.
CN	IECSC	The substance is included.
EU	ECSI	The substance is included.
EU	REACH Reg.	The substance is included.
KR	KECI	The substance is included.
MX	INSQ	The substance is included.
NZ	NZIoC	The substance is included.
PH	PICCS	The substance is included.
TR	CICR	The substance is included.
TW	TCSI	The substance is included.
US	TSCA	The substance is included.

SECTION 16: Additional information

Other information, including date of preparation or last revision

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Disclaimer	The information provided in this safety data sheet is believed to be accurate as of the date of publication; however, it is provided only as guidance for safe handling, use, processing, storage, transportation, disposal, and release of the Product. No warranties regarding the accuracy of the data or the results obtained from its use are provided. Since the information contained in this document may be applied under conditions beyond our control, we assume no responsibility for its use. The user assumes all risks and liabilities for damages, injuries, losses, or expenses resulting from any use, processing, storage, or disposal of the Product, and the Manufacturer recommends that the user conduct their own testing of the Product to determine its suitability for the user's particular use.

The main literature references and data sources include:

1. "Warning labeling of chemical products. General requirements" (GOST 31340-2013)
2. "Safety data sheet for chemical products. General requirements" (GOST 30333-2007)
3. United Nations Recommendations on the Transport of Dangerous Goods. International Maritime Dangerous Goods Code (IMDG). Regulations for the Transportation of Dangerous Goods (DGR) for air transport (IATA).

This information is based on the current state of our knowledge. The document has been prepared and intended solely for this product.