



LUXEFILM SCUFFPROOF® ANTIBACTERIAL COATING

SECTION 1: Material Identification	
Product Name	LuxeFilm ScuffProof Antibacterial COATING
Recommended Use	Antimicrobial
Uses Advised Against	None
Distributor Name	Our Vendor
Emergency Phone Number	Not Applicable
SECTION 2: Hazard Identification	
Hazard Classification	Classification according to Regulation (EC) No 1272/2008 Aquatic Acute 1, H400 (M-Factor (self-classification) = 100) Aquatic Chronic 1, H410 (M-Factor (self-classification) = 100) Classification based on silver, which is the environmentally relevant substance released from silver phosphate glass. For full text of Hazard- and EU Hazard-statements: see SECTION 16.
Signal Word	Warning
Hazard Statements	Very toxic to aquatic life with long lasting effects
Pictograms	No Data Available
Precautionary Statements	Avoid release to the environment.
CAS Hazard Class	No Data Available
Results of PBT and vPvB Assessment	PBT and vPvB criteria are not applicable to inorganic substances EU - Interim Strategy for Management of PBT and vPvB Substances (PBT Assessments) No components of this material are listed.
% Of Product with Unknown Acute Toxicity	No Data Available
Unusual Fire & Explosion Hazards	No Data Available
Label Elements	GHS09: Environment
The film can pick up a strong static charge during processing. Avoid discharge into dust or solvent as a flash fire or explosion may result.	
SECTION 3: Composition / Information on Ingredients	
Chemical Name and Synonyms	Glass, Oxide, Silver Phosphate
CAS No	308069-39-8
Concentrations	100%
Impurities & Stabilizing Additives	No Data Available
Trade Secret Claims	No Data Available



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SECTION 4: First Aid Measures	
General Information	No action shall be taken involving any personal risk or without suitable training. The first aider should wear an appropriate dust mask. (see section 8 for details)
Following Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if symptoms occur.
After Eye Contact	Flush with water for 15 minutes while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
After Skin Contact	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs, get medical advice/attention.
After Ingestion	Get medical attention immediately.
Important Symptoms and Effects, Both Acute and Delayed	Acute: Adverse symptoms may include irritation and redness of the eyes, respiratory tract irritation, coughing. Delayed: Adverse symptoms may include irritation and redness of the eyes, respiratory tract irritation, coughing. Repeated exposure to silver from silver containing substances may lead to pigmentation.
Recommendations for Immediate Medical Care / Special Treatment	Treat symptomatically and supportively. Contact poison treatment specialist if large quantities have been ingested or inhaled.
SECTION 5: Fire Fighting Measures	
General Information	No Data Available
Suitable Extinguishing Agents / Equipment	Use extinguishing agents appropriate for surrounding fire.
Unsuitable Extinguishing Agents / Equipment	None Known
Special Exposure Hazards arising from the Substance itself, Combustion Products, or Resulting Gases	Negligible fire hazard. No hazardous combustion products known.
Special Protective Equipment for Fire Fighters	Wear self-contained breathing apparatus and protective clothing.
Fire Fighting Procedures and Precautions	If safe to do so, move undamaged containers from the fire area. Cool containers with water spray until well after the fire is out. Prevent entry into sewers, drains, ditches, underground or confined spaces and waterways.
SECTION 6: Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	Wear personal protective clothing and equipment, see Section 8. Avoid breathing dust.
Environmental Precautions and Protective Procedures	Prevent entry into sewers, drains, ditches, underground or confined spaces and waterways. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for Containment and Cleanup	Avoid generating dust. Collect spilled material in appropriate container for disposal. Clean up residue with vacuum. Keep unnecessary people away, isolate hazard area and deny entry.
References to Other Sections	See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

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SECTION 7: Handling and Storage	
Precautions for Safe Handling	Avoid contact with eyes, skin and clothing. Avoid breathing dust. Use only with adequate ventilation. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.
Conditions for Safe Storage including Incompatibilities	Store in original container. Keep container tightly closed and properly labeled. Store in a well-ventilated area. Store in a cool, dry place. Keep in the dark. Keep container closed when not in use. Avoid contact with light. Keep away from incompatible materials. Use appropriate containment to avoid environmental contamination.
Shelf Life	No Data Available
Precautions against Fire and Explosion	No Data Available
SECTION 8: Exposure Controls / Personal Protection	
Control Parameters	No Data Available
AEL	AEL long-term (Industrial/professional user): 0.003 mg/kg bw/d (under review) AEL long-term (non-professional user): 0.004 mg/kg bw/d (under review)
Predicted No Effect Concentrations (PNECs)	Predicted No Effect Concentrations (PNECs) Compartment: PNEC STP (mg/L): 0.1 (under review) Water: (mg/L): 1.00 E-5 (under review) Sediment (mg/kg ww): 1.17 (draft) Soil (mg/kg ww): .075 (draft)
Component Biological Limit Values	There are not biological limit values for any of this product's components.
General Information Regarding PPE	No Data Available
Hand, Skin, and Body Protection	Wear protective clothing to prevent contact.
Eye Protection	Wear chemical safety goggles. Provide an emergency eye wash fountain in the immediate work area.
Respiratory Protection	Particle filter P1, color code white: APF 5.
Special Requirements for PPE	Select hand protection according to the other used substances. For example, material is nitrile rubber (0.5 mm), butyl rubber (0.5 mm), breakthrough times >480 min (ASTM F739).
Appropriate Engineering Controls / Ventilation	Provide local exhaust ventilation system. Ensure adequate ventilation.
Thermal Hazard Protection	No Data Available
SECTION 9: Physical and Chemical Properties	
Appearance / Color	White Powder
State of Matter	Solid
Upper / Lower Flammability Limits	Not Explosive
Upper / Lower Explosive Limits	Not Explosive
Odor	Odorless
Odor Threshold	Not Applicable (Odorless)
Vapor Density	Not Applicable (Negligible Evaporation)
pH	Not Relevant (Solid)



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SECTION 9: Physical and Chemical Properties Cont.

Relative Density	No Data Available
Melting Point / Melting Range	> 932°F (500°C)
Freezing Point / Freezing Range	No Data Available
Solubility(ies)	No Data Available
Initial Boiling Point / Boiling Range	No Data Available
Flash Point	Not flammable
Evaporation Rate	Negligible
Density	2.5 g/cm ³
Relative Density	No Data Available
Flammability (solid, gas)	Not Flammable
Partition Coefficient (N-Octane / Water)	No Data Available
Auto-Ignition Temperature	Not Applicable
Viscosity: Dynamic / Kinematic	Not relevant due to the nature of the product (solid)
Decomposition Temperature	Not Relevant
Danger of Explosion	Not Explosive
Vapor Pressure	Negligible
Specific Gravity	2.5
Spontaneous Combustion	No Data Available
Solubility / Miscibility with Water	Very Slight
Solvent Content	No Data Available
Oxidization	No oxidizing properties
Distribution Coefficient	No Data Available
Molecular Weight	No Data Available

SECTION 10: Stability & Reactivity

Reactivity	No reactivity hazard is expected.
Chemical Stability	Stable under normal conditions of use.
Possibility of Hazardous Reactions	Hazardous polymerization will not occur.
Thermal Decomposition / Conditions to Avoid	Avoid generating dust.
Incompatible Materials	None Known
Hazardous Decomposition Products	Oxides of Silver, Phosphates
Hazardous Polymerization	This material is not known to have any hazardous polymerization characteristics.

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SECTION 11: Toxicological Information

Acute Toxicity	<p>Component Analysis - LD50/LC50</p> <p>The components of this material have been reviewed in various sources and no selected endpoints have been identified.</p> <p>Acute toxicity: Oral :LD50 More than 2000 mg/kg (rat).</p>
Primary Irritant Effects on the Skin	No skin irritation was observed in skin irritation tests with rabbits.
Primary Irritant Effects on the Eye	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. No eye irritation was observed in eye irritation test with rabbits.
Primary Irritant Effects upon Inhalation	High dust levels (above statutory or recommended exposure limits) may irritate the respiratory system.
Primary Irritant Effects upon Ingestion	As the substance is not considered to be a skin or eye irritant, it is to be expected that it is also no respiratory tract irritant. No known effects or critical hazards.
Delayed, Immediate, and Chronic Effects from Exposure	<p>Potential short/long term effects may include the following: may include the following: Irritation and redness of skin and eyes, coughing, pigmentation of the skin.</p> <p>Potential chronic health effects: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Pigmentation is generally regarded as the most important effect caused by repeated exposure to silver.</p>
Symptoms	Irritation, redness. Dust may cause mechanical irritation. Respiratory symptoms may include respiratory irritation and coughing.
Carcinogen Information: if Listed in NTP or IARC	None of this product's components are listed by IARC or DFG. Based on the available data and despite the widespread occupational exposure to silver and its salts through its use as an industrial chemical, there is no indication that silver is a human carcinogen. As a result this product and other Silver containing active substances are not considered carcinogenic.
Sensitization	<p>Respiratory Sensitization: No information available for the product. There is evidence that respiratory sensitizers will also be skin sensitizers (Kimber, 1995, Am. J. Contact Derm. 6, 34-39). The substance is not sensitizing to the skin and therefore also not expected to be a respiratory sensitizer. Skin Sensitization: No skin sensitization was observed in skin sensitization tests with Guinea pigs.</p>
STOT (Specific Target Organ Toxicity): Single and Repeated Exposure	No known significant effects or critical hazards.
Reproductive Toxicity	<p>However, developmental toxicity has been determined for comparable substances via OECD 414 developmental toxicity studies. In none of these studies, developmental toxicity has been observed. Subsequently, it can be expected that Silver Phosphate Glass is also not a developmental toxicant. In a two-generation study with a comparable substance, effects on fertility were observed, but only in the presence of maternal toxicity.</p> <p>In the available two generation studies performed with two comparable substances no effects on or via lactation were observed. Subsequently it is not expected that Silver Phosphate Glass can cause effects via lactation based on the available information, Silver Phosphate Glass does not have to be classified for reproductive toxicity according to EU Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation (EC) No. 1272/2008.</p>
Germ Cell Mutagenicity	In vitro genotoxicity data gave mixed results with a negative response in Ames assays and a mixture of positive and negative responses in chromosome aberration and TK mouse lymphoma assays. Although ambiguous results were obtained in the in vitro studies, the available in vivo studies indicate that the substance does not exhibit sufficient genotoxic effects to justify classification for mutagenicity.

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SECTION 12: Ecological Information

Ecological & Aquatic Toxicity	Component Analysis - Aquatic Toxicity: No information available for the product itself.. Silver is the environmentally relevant substance released from silver phosphate glass. Chronic and acute tests are available for a wide range of species. Test species include fish, crustaceans and algae. The most sensitive endpoint was the estimated maximum acceptable toxicant concentration (MATC) based on the lowest significant effect level is <math><0.1 \mu\text{g silver/L}</math> from an embryo-larval study with steelhead trout.
Persistence and Degradability	No information available for the product. Silver by definition cannot be degraded and is naturally present in the environment at levels up to 40 $\mu\text{g/L}$ in surface waters and at average levels of 0.3 mg/kg in soil and sediment.
Bioaccumulative Potential	No information available for the product. Studies in algae and sediment dwelling organisms show that bioaccumulation and biomagnification of silver are not likely to occur in the environment.
Mobility in Soil / Argonomical Movement	No information available for the product.
Other Hazardous Effects	No Data Available
Additional Ecological Information	No information available for the product.

SECTION 13: Disposal Considerations

Disposal Method and Precautions	Waste should not be disposed of untreated to the sewers unless fully compliant with requirements of all authorities with jurisdiction. . This material and its container must be disposed of in a safe way. Incineration or landfill should only be considered if recycling is not feasible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Recommended Cleansing Agents	No Data Available
Contaminated Packaging	Empty containers or liners may retain some product residues.
General Comment	Dispose according to Local, Federal, and State Regulations. The generation of waste should be avoided or minimized wherever possible.

Refer to Section 8 for more information regarding minimizing exposure and protection.

SECTION 14: Transport Information

UN Number	ADR, ADN, IMDG, IATA: UN 3077
UN Proper Shipping Name	ADR, ADN, IMDG, IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE ,SOLID, N.O.S. (silver)
Transport Hazard Class(es)	ADR, ADN, IMDG, IATA: 9
Class	No Data Available
Packing Group Number	ADR, ADN, IMDG, IATA: III
Environmental Hazards	ADR, ADN, IMDG, IATA: yes
Marine Pollutant	Yes
Special Precautions for User	No Data Available
UN "Model Regulation"	No Data Available
Bulk Transport Regulations	This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.
Other Transport Regulations	This product may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR/ADN SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5kg or less for solids.

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SECTION 15: Regulatory Information	
EU - REACH (1907/2006)	Annex XIV List of Substances Subject to Authorisation No components of this material are listed.
EU - REACH (1907/2006)	Article 59(1) Candidate List of Substances Subject to Authorisation. No components of this material are listed.
EU - REACH (1907/2006)	Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles. No components of this material are listed.
EU - REACH (1907/2006)	Potential Substances of Very High Concern No components of this material are listed.
EU - Biocides (1062/2014)	Existing Active Substance; Product is in the review programme of the Biocidal Products Regulation EU - REACH (1907/2006) - Article 15(2) Exempted: This substance is in the review programme of the Biocidal Products Regulation.
EU - Ozone depleting substances (1005/2009)	No components of this material are listed.
EU - Prior informed Consent (PIC) (649/2012/EU)	No components of this material are listed
EU - Seveso Directive (Annex I to Council Directive 96/82/E)	This product is not controlled under the Seveso Directive.
ADR	Limited quantities (LQ) 5 kg Excepted quantities (EQ) Code: E1 Special provisions: 274, 335, 375, 601 Hazard identification number: 90 Transport category: 3 Tunnel code: (-)
ADN	Limited quantities (LQ) 5 kg Excepted quantities (EQ) Code: E1 Special provisions: 274, 335, 375, 601
IMDG	Limited quantities (LQ) 5 kg Excepted quantities (EQ) Code: E1 Special provisions: 274, 335, 375 966 967 Emergency schedules (EmS): F-A, S-F Marine pollutant: yes
Full text of H Phrases	H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.
Full text of Classifications	Aquatic Acute 1: H400 ACUTE AQUATIC HAZARD - Category 1 Aquatic Chronic 1: H410 LONG-TERM AQUATIC HAZARD - Category 1
Austria Regulations	VbF class: Not regulated
Germany Regulations	Germany Water Classification: 3 Appendix No.3 Storage class (TRGS510): 13 Technical instruction on the air quality control: TA-Luft Number 5.2.1
Denmark Regulations	Lister over stoffer og processer, der anses for at være kræftfremkaldende Environmental Protection Agency List of Undesirable Substances: No components of this material are listed.
France Regulations	tableaux de maladies professionnelles: Not applicable nomenclature des installations classées pour la protection de l'environnement: Not applicable
Italy Regulations	D.Lgs. 152/06: Not classified
Netherlands Regulations	Lijst van kankerverwekkende, mutagene, en voor de voortplanting giftige stoffen SZW: No components of this material are listed.; De Algemenebeoordelingsmethodiek Water (ABM): Slightly harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Abatement effort: A; De Nederlandse Emissierichtlijn (NeR): zilver en -verbindingen, berekend als Ag
Switzerland Regulations	VOC content: Exempt, not relevant
Chemical Safety Assessment	No chemical safety assessment has been carried out for the substance/mixture.



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SECTION 16: Other Information

Last Revision	December 2020
Training Instructions	Read the Safety Data Sheet before handling product.
Data Sources	Data provided is from Manufacturer's SDS Sheets.



Note: The information furnished herein is believed to be factual. No hazardous substances are used in the manufacturing of this product on this material safety data sheet with the exceptions indicated. Though no specific analysis is done for the products or the raw material used in its manufacturing for hazardous substances stated in various states list. The information is taken from works and qualified experts, however nothing contained in the information is to be taken as warranty or representation for which Nobelus®, bears legal responsibility.