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SAFETY DATA SHEET

SILCOGUM LIGHT GRAY

Section 1. Identificatio	n	
GHS product identifier Chemical name CAS number Other means of identification Product type	:	SILCOGUM LIGHT GRAY Mixture Mixture FO20043055 liquid
	ance	or mixture and uses advised against
Product use	:	Industrial applications. Plastics.
Supplier's details	:	GSDI Specialty Dispersions, Inc. 1675 Navarre Road SW, Massillon, Ohio USA 44646
		1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone number (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.

GHS label elements

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Signal word Hazard statements	:	No signal word. No known significant effects or critical hazards.
Precautionary statements		
General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	FO20043055

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	50 - 75	13463-67-7
Cobalt aluminate blue spinel (C.I. Pigment Blue 28)	1 - 3	1345-16-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the :



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		upper and lower eyelids. Check for and remove any contact lenses.
		Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable
		for breathing. Get medical attention if symptoms occur.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated
		clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at
		rest in a position comfortable for breathing. If material has been
		swallowed and the exposed person is conscious, give small quantities
		of water to drink. Do not induce vomiting unless directed to do so by
		medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact Inhalation Skin contact Ingestion <u>Over-exposure signs/symptoms</u>	 No known significant effects or critical hazards. 			
Eye contact	: No specific data.			
Inhalation	: No specific data.			
Skin contact	: No specific data.			
Ingestion	: No specific data.			
Indication of immediate medical attention and special treatment needed, if necessary				
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.			
Specific treatments	: No specific treatment.			
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.			

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO ₂ .
Unsuitable extinguishing media	:	None known.

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Specific hazards arising from the chemical Hazardous thermal decomposition products	:	In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up		
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste
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disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Cobalt aluminate blue spinel (C.I.	ACGIH TLV (1994-09-01) as Co
Pigment Blue 28)	TLV-TWA: Threshold Limit Value - Time weighted average PEL:
	Permissible Exposure Level 0.02 mg/m3
Titanium dioxide	OSHA PEL 1989 (1989-03-01)
	PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust
	OSHA PEL (1993-06-30)
	PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust
	NIOSH REL (1994-06-01)
	ACGIH TLV (1996-05-18)
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:
	Permissible Exposure Level 10 mg/m3



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Appropriate engineering controls		general ventilation should be sufficient to control worker sure to airborne contaminants.
Environmental exposure controls	: Emis check envir filter	sions from ventilation or work process equipment should be teed to ensure they comply with the requirements of commental protection legislation. In some cases, fume scrubbers, s or engineering modifications to the process equipment will be sary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	produ of the remo cloth	hands, forearms and face thoroughly after handling chemical acts, before eating, smoking and using the lavatory and at the end e working period. Appropriate techniques should be used to ve potentially contaminated clothing. Wash contaminated ing before reusing. Ensure that eyewash stations and safety ers are close to the workstation location.
Eye/face protection	when liquio follo	y eyewear complying with an approved standard should be used a risk assessment indicates this is necessary to avoid exposure to l splashes, mists, gases or dusts. If contact is possible, the wing protection should be worn, unless the assessment indicates a r degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	stand	nical-resistant, impervious gloves complying with an approved ard should be worn at all times when handling chemical products sk assessment indicates this is necessary.
Body protection	Person the	anal protective equipment for the body should be selected based e task being performed and the risks involved and should be wed by a specialist before handling this product.
Other skin protection	: Appr shoul	opriate footwear and any additional skin protection measures d be selected based on the task being performed and the risks ved and should be approved by a specialist before handling this
Respiratory protection	: Based meets used	I on the hazard and potential for exposure, select a respirator that is the appropriate standard or certification. Respirators must be according to a respiratory protection program to ensure proper g, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state:liquid [Color:GREY	[Viscous liquid.]
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Odor	:	Not available.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n-	:	Not available.
octanol/water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.



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Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure			
Remarks - Oral:	No applicable toxi	No applicable toxicity data					
Remarks - Inhalation:	No applicable toxi	No applicable toxicity data					
Remarks - Dermal:	No applicable toxicity data						
Titanium dioxide							
Remarks - Oral:	No applicable toxicity data						
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h			
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-			
Conclusion/Summary : Mixture.Not fully tested.							

Conclusion/Summary

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium dioxide	Skin - Mild	Human		72 hrs	-
	irritant				
Conclusion/Summary					
Skin	: N	lixture.Not fu	illy tested.		
Eyes	: M	lixture.Not fu	illy tested.		
Respiratory	: N	lixture.Not fu	illy tested.		
<u>Sensitization</u>					
Conclusion/Summary					
Skin	: N	lixture.Not fu	illy tested.		
Respiratory	: N	lixture.Not fu	ally tested.		
<u>Mutagenicity</u>					
Conclusion/Summary	: N	lixture.Not fu	ally tested.		
Carcinogenicity					
Conclusion/Summary	: N	lixture.Not fu	ıllv tested.		
Classification			5		
Product/ingredient	OSHA	IARC	NTP		
name					
Cobalt aluminate blue			Reason	ably anticipated to b	e a human carcinoger
spinel (C.I. Pigment Blue					U
28)					
Titanium dioxide		2B			



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<u>Reproductive toxicity</u>		
Conclusion/Summary	:	Mixture.Not fully tested.
<u>Teratogenicity</u>		
Conclusion/Summary	:	Mixture.Not fully tested.
Specific target organ toxicity (sing Not available.	le exp	<u>osure)</u>
Specific target organ toxicity (rependent) Not available.	ated o	exposure)
Aspiration hazard Not available.		
Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion	:	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Symptoms related to the physical, c	hemi	cal and toxicological characteristics
Eye contact Inhalation Skin contact Ingestion	:	No specific data. No specific data. No specific data. No specific data.
Delayed and immediate effects as w	ell as	chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Long term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.



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Potential chronic health effects

Conclusion/Summary	:	Mixture.Not fully tested.
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects	:	No known significant effects or critical hazards. No known significant effects or critical hazards.
I el unity ellecto	•	

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	45,794.3 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure			
Cobalt aluminate blue spinel (C.I. Pigment Blue 28)					
Remarks - Acute - Fish:	No applicable toxicity data					
Remarks - Acute - Aquatic	No applicable toxicity data					
invertebrates.:						
Remarks - Acute - Aquatic	No applicable toxicity data					
plants:						
Remarks - Chronic - Fish:	No applicable toxicity data					
Remarks - Chronic -	No applicable toxicity data					
Aquatic invertebrates.:						
Titanium dioxide						
	Acute LC50 > 1,000 Mg/l Marine water	Fish - Fish	96 h			
Remarks - Acute - Fish:	Acute					
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h			
Remarks - Acute - Aquatic invertebrates.:	Acute					
	Acute LC50 6.5 Mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h			



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Remarks - Acute - Aquatic	Acute		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data		
plants:			
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic -	No applicable toxicity data		
Aquatic invertebrates.:			
Conclusion/Summary	: Not available.		
<u>Persistence and degradability</u> Conclusion/Summary	: Not available.		
<u>Bioaccumulative potential</u> Not available.			
Mobility in soil			
Soil/water partition coefficie (KOC)	ent : Not available.		
Other adverse effects	: No known significant effects or critical hazards.		

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

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Section 14. Transport information

U.S.DOT 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Consult mode specific transport rules
International Water IMO/IMDG	:	Consult mode specific transport rules

Section 15. Regulatory information

U.S. Federal regulations	:	United States - TSCA 12(b) - Chemical export notification: None
8		of the components are listed.
		United States - TSCA 4(a) - Final Test Rules: Not listed
		United States - TSCA 4(a) - ITC Priority list: Not listed
		United States - TSCA 4(a) - Proposed test rules: Not listed
		United States - TSCA 4(f) - Priority risk review: Not listed
		United States - TSCA 5(a)2 - Final significant new use rules: Not
		listed
		United States - TSCA 5(a)2 - Proposed significant new use rules:
		Not listed
		United States - TSCA 5(e) - Substances consent order: Not listed
		United States - TSCA 6 - Final risk management: Not listed
		United States - TSCA 6 - Proposed risk management: Not listed
		United States - TSCA 8(a) - Chemical risk rules: Not listed
		United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed
		United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not
		determined
		United States - TSCA 8(a) - Preliminary assessment report
		(PAIR): Listed Octamethylcyclotetrasiloxane
		Siloxanes and Silicones, di-Me, Me hydrogen
		United States - TSCA 8(c) - Significant adverse reaction (SAR):
		Not listed
		United States - TSCA 8(d) - Health and safety studies: Not listed
		United States - FSCA 6(d) - Health and safety studies. Not listed United States - EPA Clean water act (CWA) section 307 - Priority
		pollutants: Not listed
		United States - EPA Clean water act (CWA) section 311 -
		Hazardous substances: Not listed
		United States - EPA Clean air act (CAA) section 112 - Accidental
		release prevention - Flammable substances: Not listed
		Telease prevention - Franmable substances. Not listed

GSDI Specialty Dispersions, Inc.

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United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed

Clean Air Act Section 112(b)	:	Listed
Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I	:	Not listed
Substances Clean Air Act Section 602 Class II	:	Not listed
Substances DEA List I Chemicals (Precursor	:	Not listed
Chemicals) DEA List II Chemicals (Essential	:	Not listed
Chemicals)		

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

Not applicable.

:

Composition/information on ingredients

Name	%	Classification
Cobalt aluminate blue spinel (C.I. Pigment Blue 28)	1 - 3	СН
Titanium dioxide	50 - 75	СН

SARA 313

	Product name	CAS number	%
Form R - Reporting	Cobalt aluminate blue spinel	1345-16-0	1 - 3
requirements	(C.I. Pigment Blue 28)		
Supplier notification	Cobalt aluminate blue spinel	1345-16-0	1 - 3
	(C.I. Pigment Blue 28)		

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations		
Massachusetts	: None of the components are listed.	
New York	: None of the components are listed.	
New Jersey	: The following components are listed:	

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		Cobalt aluminate blue spinel (C.I. Pigment Blue 28) Titanium dioxide
Pennsylvania	:	The following components are listed:
		Cobalt aluminate blue spinel (C.I. Pigment Blue 28)
		Silica, amorphous
		Aluminum hydroxide
		Titanium dioxide
<u>California Prop. 65</u> WARNING: This product contains a cl	hemi	ical known to the State of California to cause cancer.
United States inventory (TSCA 8b)	:	All components are listed or exempted.
Canada inventory	:	All components are listed or exempted.
International regulations		
Inventory list		
Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.
Europe inventory	:	All components are listed or exempted.
Japan	:	Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	:	All components are listed or exempted.
Republic of Korea	:	All components are listed or exempted.
Taiwan	:	All components are listed or exempted.
Turkey	:	Not determined.
United States	:	All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required

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on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

<u>Instory</u>		
Date of printing	:	05/09/2018
Date of issue/Date of revision	:	05/08/2018
Date of previous issue	:	00/00/0000
Version	:	1.0
Key to abbreviations	:	ATE = Acute Toxicity Estimate
·		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		LogPow = logarithm of the octanol/water partition coefficient
		MARPOL = International Convention for the Prevention of Pollution From
		Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine
		pollution)
		UN = United Nations
References	:	Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.