

SAFETY DATA SHEET



1. Identification

Product identifier	Style 3300		
Other means of identification			
Product code	39003, 39013		
Recommended use	Gasket Material		
Recommended restrictions	Maximum Service Temperature should not exceed 700°F		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	Garlock Sealing Technologies, LLC		
Address	1666 Division Street Palmyra, NY 14522		
	United States		
Telephone	M-F 9:00AM-4:00PM 315-597-4811		
	FAX 315-597-3039		
E-mail	GSTSDS@garlock.com		
Emergency phone number	315-597-4811		
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Not classified.		
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Hazard symbol	None.		
Signal word	None.		
Hazard statement	In its manufactured and shipped state, this product is considered to present low hazard.		
Precautionary statement			
Prevention	Observe good industrial hygiene practices.		
Response	Wash hands after handling.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of waste and residues in accordance with local authority requirements.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	OSHA Hazard Communication Standard (29 CFR 1910.1200) requirements for Safety Data Sheets do not apply to the product(s) described in this document. This product is excluded in the regulation as an Article		

3. Composition/information on ingredients

regulation as an Article.

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Kaolin		1332-58-7	- < 50
Nitrile Rubber		9003-18-3	< 20
p-Aramid Fiber		26125-61-1	- < 20
Barium Sulfate		7727-43-7	- < 10
Rubber, Natural		9006-04-6	- < 10
Stearic Acid		57-11-4	< 5
Carbon Black		1333-86-4	- < 1
Magnesium Oxide		1309-48-4	< 1

Chemical name	Common name and synonyms	CAS number	%
Titanium Dioxide		13463-67-7	< 1
Silica - Crystalline, Quartz		14808-60-7	< 0.5
Toluene		108-88-3	0< 0.5
Zinc Oxide		1314-13-2	- < 0.5
Other components below reportable	e levels		20 - < 30

Other components below reportable levels

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	If exposed to fumes from overheatng or combustion, move to fresh air.
Skin contact	Wash off immediately with soap and plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	No specific intervention is indicated, as product is not likely to be hazardous by ingestion. Consult a physician if necessary.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Get medical attention if symptoms occur.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	See Section 8 of the SDS for Personal Protective Equipment.
Methods and materials for containment and cleaning up	No special methods normally required. If dust is generated see Section 7.
Environmental precautions	None known.
7 Handling and storage	

7. Handling and storage .

Precautions for safe handling	Avoid grinding, abrading or other mechanical actions that could release airborne silica. Dust generated from this material must be managed by wet wiping or vacuuming with HEPA filtration equipped vacuum cleaners. Do not dry sweep or blow dust with compressed air. Avoid breathing dust. Avoid contamination of cigarettes or tobacco with dust from this material.
Conditions for safe storage,	Store away from incompatible materials (see Section 10 of the SDS).
including any incompatibilities	Room temperature - normal conditions.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Barium Sulfate (CAS 7727-43-7)	PEL	5 mg/m3	Respirable fraction.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
		15 mg/m3	Total dust.
Carbon Black (CAS	PEL	3.5 mg/m3	
333-86-4)		E #= == /=== 0	
(aolin (CAS 1332-58-7)	PEL	5 mg/m3	Respirable fraction.
Azanosium Oxido (CAS	PEL	15 mg/m3 15 mg/m3	Total dust.
/agnesium Oxide (CAS 309-48-4)	FEL	15 mg/m3	Total particulate.
Silica - Crystalline, Quartz	PEL	0.05 mg/m3	Respirable dust.
CAS 14808-60-7)		· ·	
itanium Dioxide (CAS	PEL	15 mg/m3	Total dust.
3463-67-7) /inc Oxide (CAS	PEL	5 mg/m3	Respirable fraction.
314-13-2)		5 mg/mb	
		5 mg/m3	Fume.
		15 mg/m3	Total dust.
S. OSHA Table Z-2 (29 CFR 1910.10			
omponents	Туре	Value	
oluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
IS. OSHA Table Z-3 (29 CFR 1910.10	-		_
components	Туре	Value	Form
aolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
lagnesium Oxide (CAS	TWA	5 mg/m3	Respirable fraction.
309-48-4)			Tatal 1 1
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
ilica - Crystalline, Quartz CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
JAS 14000-00-1)		2.4 mppcf	Respirable.
ïtanium Dioxide (CAS	TWA	5 mg/m3	Respirable fraction.
3463-67-7)		-	
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
IS. ACGIH Threshold Limit Values			_
components	Туре	Value	Form
arium Sulfate (CAS 727-43-7)	TWA	5 mg/m3	Inhalable fraction.
Carbon Black (CAS 333-86-4)	TWA	3 mg/m3	Inhalable fraction.
aolin (CÁS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
lagnesium Oxide (CAS	TWA	10 mg/m3	Inhalable fraction.
309-48-4)	T 14(A		
ubber, Natural (CAS 006-04-6)	TWA	0.0001 mg/m3	Inhalable fraction.
ilica - Crystalline, Quartz	TWA	0.025 mg/m3	Respirable fraction.
CAS 14808-60-7)		0.020 mg/m0	
tearic Acid (CAS 57-11-4)	TWA	10 mg/m3	
	TWA	10 mg/m3	
ïtanium Dioxide (CAS 3463-67-7) oluene (CAS 108-88-3)	TWA	10 mg/m3 20 ppm	

Components	Тур	e	Va	alue	Form
Zinc Oxide (CAS 1314-13-2)	STE	EL	10) mg/m3	Respirable fraction.
,	TW		2	mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide Components	e to Chemical Hazards Typ		Va	alue	Form
Barium Sulfate (CAS 7727-43-7)	TW	A	5	mg/m3	Respirable.
·				mg/m3	Total
Carbon Black (CAS 1333-86-4)	TW	A	0.	1 mg/m3	
Kaolin (CAS 1332-58-7)	TW	A		mg/m3	Respirable.
) mg/m3	Total
p-Aramid Fiber (CAS 26125-61-1)	TW	A	31	fibers/cm3	Dust.
			3	fibers/cm3	Fiber.
				mg/m3	fibers, total dust
				mg/m3	Fiber, total
Silica - Crystalline, Quartz (CAS 14808-60-7)	TW	A	0.0	05 mg/m3	Respirable dust.
Toluene (CAS 108-88-3)	STE	EL	56	60 mg/m3	
			15	i0 ppm	
	TW	A	37	′5 mg/m3	
			10	0 ppm	
Zinc Oxide (CAS 1314-13-2)	Ceil	ling	15	mg/m3	Dust.
,	STE	EL	10) mg/m3	Fume.
	TW	A	5	mg/m3	Fume.
			5	mg/m3	Dust.
logical limit values					
ACGIH Biological Expose Components	ure Indices Value	Determinant	Specimen	Sampling 1	īme
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with	Creatinine in	*	
	0.03 mg/l	hydrolysis Toluene	urine Urine	*	
	0.02 mg/l	Toluene	Blood	*	
* - For sampling details, pl	e e		2.000		
oosure guidelines		osure to nuisance du	ust (total and res	pirable) and re	espirable crystalline silica
US - California OELs: Ski					
Toluene (CAS 108-88	-3)	Can b	e absorbed throu	ugh the skin.	
US - Minnesota Haz Subs	Skin designation ap	plies			
Toluene (CAS 108-88	-3)	Skin d	esignation applie	es.	
US ACGIH Threshold Lin	-				
Dubban National (OAO	9006-04-6)		e absorbed throu	lgn the skin.	
Rubber, Natural (CAS					
propriate engineering		n normally adequate	-		
propriate engineering trols	General ventilation				
propriate engineering trols	General ventilation es, such as personal As generally good	protective equipme practice, safety gla	ent sses with side sl		mmended when handling
propriate engineering trols vidual protection measur Eye/face protection	General ventilation es, such as personal As generally good	protective equipme	ent sses with side sl		mmended when handling
oropriate engineering trols vidual protection measur Eye/face protection Skin protection	General ventilation es, such as personal p As generally good product to prevent	protective equipme practice, safety gla eye contact with pa	ent sses with side sl articulate matter.		mmended when handling
propriate engineering itrols ividual protection measur Eye/face protection	General ventilation es, such as personal p As generally good product to prevent	protective equipme practice, safety gla eye contact with pa epeated skin contact	ent sses with side sl articulate matter.		-

OtherNot normally needed.Respiratory protectionUse a particulate filter respirator for particulate concentrations exceeding the Occupational
Exposure Limit.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Sheets or Gaskets
Color	Grey-black
Odor	Slight fruity or hydracarbon odor.
Odor threshold	Not available.
рН	Not Applicable
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not Applicable
Flash point	Not Applicable
Evaporation rate	Not Applicable
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	
Flammability limit - lower (%)	Not Applicable
Flammability limit - lower (%) temperature	Not Applicable
Flammability limit - upper (%)	Not Applicable
Flammability limit - upper (%) temperature	Not Applicable
Explosive limit - lower (%)	Not Applicable
Explosive limit - lower (%) temperature	Not Applicable
Explosive limit - upper (%)	Not Applicable
Explosive limit - upper (%) temperature	Not Applicable
Vapor pressure	Not Applicable
Vapor density	Not Applicable
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not Soluble
Partition coefficient (n-octanol/water)	Not Applicable
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not Applicable
Other information	
Density	100.00 lb/ft ³
Explosive limit	Not Applicable
Flash point class	Not Applicable
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, sparks and open flame.

Material name: Style 3300 39003, 39013 Version #: 01 Issue date: 10-24-2017

Incompatible materials	Strong mineral acids. Strong oxidizing agents. Strong bases.
Hazardous decomposition products	Composition of by-products from the result of a fire will vary depending on the specific conditions. Potential hazardous products of combustion include smoke, carbon monoxide, hydrogen cyanide, ammonia, aldehydes, nitrogen oxides, aliphatic hydrocarbons, hydrogen chloride, and other chlorine bearing products. There may be others unknown to us.

11. Toxicological information

Information on likely routes of	exposure		
Inhalation	No adverse effects due to inhalation are expected.		
Skin contact	May cause sensitization by skin contact. May be irritating to the skin.		
Eye contact	Direct contact with eyes may cause temporary irritation.		
Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.		
Information on toxicological ef	fects		
Acute toxicity	product contains constitu- irritation, pneumoconiosis binders and therefore not	pors may be produced in the event of thermal decomposition. This ents that can cause lung and respiratory tract disorders, including s and cancer. These substances however are encapsulated in polymeric t bioavailable from the product as supplied. Physical actions such as isrupt the matrix producing dust and particulates.	
Components	Species	Test Results	
Stearic Acid (CAS 57-11-4)			
<u>Acute</u>			
Oral			
LD50	Rat	4.6 g/kg	
* Estimates for product may	be based on additional comp	ponent data not shown.	
Skin corrosion/irritation	•	hay cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitizatio	on		
ACGIH sensitization			
NATURAL RUBBER LA ALLERGENIC PROTEIN		Dermal sensitization	
		Respiratory sensitization	
Respiratory sensitization	Not a respiratory sensitize	er.	
Skin sensitization		ted to cause skin sensitization.	
Germ cell mutagenicity	No data available to indic mutagenic or genotoxic.	ate product or any components present at greater than 0.1% are	
Carcinogenicity	inhaled from occupationa overall evaluation, IARC r circumstances studied. C crystalline silica or on ext polymorphs." (IARC Mon humans, Silica, silicates of 2003, SCOEL (the EU Sc main effect in humans of sufficient information to c silicosis (and, apparently, in the ceramic industry). risk" (SCOEL SUM Doc protection against silicosi	ational Agency for Research on Cancer) concluded that crystalline silical sources can cause lung cancer in humans. However in making the noted that "carcinogenicity was not detected in all industrial carcinogenicity may be dependent on inherent characteristics of the ternal factors affecting its biological activity or distribution of its nographs on the evaluation of the carcinogenic risks of chemicals to dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June cientific Committee on Occupational Exposure Limits) concluded that the the inhalation of respirable crystalline silica dust is silicosis. "There is onclude that the relative risk of lung cancer is increased in persons with , not in employees without silicosis exposed to silica dust in quarries and Therefore, preventing the onset of silicosis will also reduce the cancer c 94-final, June 2003) According to the current state of the art, worker is can be consistently assured by respecting the existing regulatory mits. Occupational exposure to respirable dust and respirable crystalline d and controlled.	
IARC Monographs. Overall	Evaluation of Carcinogeni	icity	
Carbon Black (CAS 133		2B Possibly carcinogenic to humans.	

p-Aramid Fiber (CAS 26125-61-1) 3 Not classifiable as to carcinogenicity to humans.

Silica - Crystalline, Quartz (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7) Toluene (CAS 108-88-3) OSHA Specifically Regulated Substances (29 CFR 1910.1		 Carcinogenic to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 001-1050)
Silica - Crystalline, Quartz (CAS 14808-60-7)		Cancer
US. National Toxicology Pro	ogram (NTP) Report on Carcin	logens
p-Aramid Fiber (CAS 26125-61-1) Silica - Crystalline, Quartz (CAS 14808-60-7)		Reasonably Anticipated to be a Human Carcinogen. Known To Be Human Carcinogen.
Reproductive toxicity	This product is not expected t	o cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results	
Style 3300				
Aquatic				
Crustacea	EC50	Daphnia	286.3559 mg/l, 48 hours estimated	
Fish	LC50	Fish	1078.6709 mg/l, 96 hours estimated	
Components		Species	Test Results	
Barium Sulfate (CAS 7727-4	13-7)			
Aquatic				
Crustacea	EC50	Tubificid worm (Tubifex tubifex)	28.61 - 38.03 mg/l, 48 hours	
Titanium Dioxide (CAS 1346	63-67-7)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours	
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours	
Toluene (CAS 108-88-3)				
Aquatic		Materia (Dechric means)		
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours	
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours	
Zinc Oxide (CAS 1314-13-2)			
Aquatic				
Fish	LC50	Fathead minnow (Pimephales promela	s) 2246 mg/l, 96 hours	
* Estimates for product may	be based on a	additional component data not shown.		
sistence and degradability	No data is	available on the degradability of this produc	t.	
accumulative potential	No data available.			
Partition coefficient n-octa	anol / water (l			
Stearic Acid Toluene		8.23 2.73		
bility in soil	No data av	-		
-			volation photophomical azona aroption	
er adverse effects		dverse environmental effects (e.g. ozone de endocrine disruption, global warming potenti		
Disposal consideration	ons			
posal instructions	Not availal	Not available.		
al disposal regulations	Dispose in	Dispose in accordance with all applicable regulations.		
ardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste			

disposal company.

Waste from residues / unused Dispose of in accordance with local regulations. products

Contaminated packaging

Not available.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Barium Sulfate (CAS 7727-43-7)	Listed.	
Toluene (CAS 108-88-3)	Listed.	
Zinc Oxide (CAS 1314-13-2)	Listed.	
DA 204 Emergeney veloces notification		

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Silica - Crystalline, Quartz (CAS 14808-60-7)

Cancer lung effects immune system effects kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Imm
0	Dela
	Fire
	_

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Toluene (CAS 108-88-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number Toluene (CAS 108-88-3) 6594

 Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

 Toluene (CAS 108-88-3)

 35 %WV

 DEA Exempt Chemical Mixtures Code Number

 Toluene (CAS 108-88-3)

 594

US state regulations

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon Black (CAS 1333-86-4) p-Aramid Fiber (CAS 26125-61-1) Silica - Crystalline, Quartz (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)

Listed: February 21, 2003 Listed: July 1, 1990 Listed: October 1, 1988 Listed: September 2, 2011

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Toluene (CAS 108-88-3)

Listed: January 1, 1991 US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Carbon Black (CAS 1333-86-4) Magnesium Oxide (CAS 1309-48-4) Silica - Crystalline, Quartz (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7) Toluene (CAS 108-88-3)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	10-24-2017
Version #	01
Further information	This SDS supersedes the SDS dated: May 6, 2015
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.