# 622



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SECTION 1. IDENTIFICATION								
Produc	ct name	:	622					
Produc	ct code	:	0000000000554	9558				
Manuf	acturer or supplier's	deta	ils					
Company		:	LANXESS Corporation Product Safety & Regulatory Affairs 111 RIDC Park West Drive Pittsburgh, Pennsylvania 15275-1112					
Respo	nsible Department	:	(800) LANXESS (412) 809-1000 lanxesshes@lan:	xess.com				
Emerg	ency telephone	:	(703) 527-3887 (	0) 424-9300 or Outside U.S.A) and mention CCN12916. ncy Phone (800) 410-3063.				
	nmended use of the c nmended use	hem :	ical and restriction					

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Skin irritation	:	Category 2		
Serious eye damage	:	Category 1		
Carcinogenicity	:	Category 1A		
Specific target organ toxicity - repeated exposure (Inhala- tion)	:	Category 1 (Lungs)		
Specific target organ toxicity - repeated exposure	:	Category 2 (Central nervous system)		

#### **GHS** label elements

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Hazard pictograr	ns		
Signal Word		: Danger	•
Hazard Stateme	nts	peated exposur May cause dam	eye damage. cer. e to organs (Lungs) through prolonged or re-
Precautionary St	atements	Do not handle u understood. Do not breathe Wash skin thoro Do not eat, drin	nstructions before use. Intil all safety precautions have been read and dust/ fume/ gas/ mist/ vapors/ spray. bughly after handling. k or smoke when using this product. gloves/ protective clothing/ eye protection/ fac
		IF IN EYES: Rir Remove contac rinsing. Immedia IF exposed or c If skin irritation o	ash with plenty of soap and water. hse cautiously with water for several minutes. t lenses, if present and easy to do. Continue ately call a POISON CENTER/ doctor. oncerned: Get medical advice/ attention. occurs: Get medical advice/ attention. hinated clothing and wash before reuse.
		<b>Storage:</b> Store locked up	
		Disposal:	ents/ container to an approved waste disposal

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

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#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Crystalline Quartz Silica	14808-60-7	>= 10 - < 20
Manganese Oxide	1313-13-9	>= 10 - < 20
manganese	7439-96-5	>= 5 - < 10
aluminium oxide	1344-28-1	>= 1 - < 5
calcium oxide	1305-78-8	>= 1 - < 5
magnesium oxide	1309-48-4	>= 1 - < 5
Phosphorus Pentoxide	1314-56-3	>= 1 - < 5

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

#### **SECTION 4. FIRST AID MEASURES**

If inhaled :	Get medical attention immediately. If inhaled, remove to fresh air. If unconscious, place in recovery position and get medical attention immediately. Maintain open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained per- sonnel.
In case of skin contact :	In case of contact, immediately flush skin with plenty of water for at least 30 minutes. Get medical attention immediately. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use.
In case of eye contact :	Get medical attention immediately. In case of contact, flush eyes with plenty of water for at least 30 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Remove contact lenses, if present and easy to do. Continue rinsing. Chemical burns must be treated promptly by a physician.
If swallowed :	Get medical attention immediately. Rinse mouth with water. Do not induce vomiting unless directed to do by medical per- sonnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If unconscious, place in recovery position and get medical attention immediately. Never give anything by mouth to an unconscious person. Maintain open airway.

Most important symptoms and effects, both acute and delayed

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Symp	otoms	ing, burning a Skin: Causes and swelling May cause re ing, sore thro May cause p difficulty and Adverse effe carcinogenic	espiratory tract irritation with symptoms of cough- bat and runny nose. ulmonary edema with symptoms of breathing tightness of chest. cts from repeated exposure may include		
Effec	ts	disease calle	Exposure to Silica, Quartz can cause a very serious lung disease called Silicosis with cough, shortness of breath, and changes in chest x-ray.		
Effec	ts	May cause c Causes dam exposure if ir	ous eye damage. ancer. age to organs through prolonged or repeated		
Prote	ction of first-aiders		ed that fumes are still present, the rescuer an appropriate mask or self-contained breathing		
Notes	s to physician	: Serious effect Treat sympton	ts may be delayed following exposure. matically.		

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam or dry chemical.
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Water runoff from fire fighting may be corrosive. May release toxic, irritating and/or corrosive gases.
Hazardous combustion prod- ucts	:	Metal oxides Oxides of phosphorus
Further information	:	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.



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		l protective equipment fighters	:	Wear self-contain essary.	ed breathing apparatus for firefighting if nec-	
SEC	CTION 6	. ACCIDENTAL RELE	ASI	EMEASURES		
Personal precautions, protec- : tive equipment and emer- gency procedures			:	No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protection equipment. Do not touch or walk through spilled material. Evacuate personnel to safe areas. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Avoid breathing dust.		
	Environmental precautions :			Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.		
		ls and materials for ment and cleaning up	:	beled waste conta	up material and place in a designated, la-	

#### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	<ul> <li>Avoid inhalation, ingestion and contact with skin and eyes. Use only with adequate ventilation. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</li> </ul>
Conditions for safe storage	<ul> <li>Store in accordance with local regulations.</li> <li>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.</li> <li>Keep container closed when not in use.</li> <li>Containers that have been opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Do not store in unlabeled containers.</li> <li>Use appropriate container to avoid environmental contamination.</li> <li>Empty containers retain residue and can be dangerous.</li> <li>Do not reuse container.</li> </ul>



Further information on stor- : age stability

Further information on stor- : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Crystalline Quartz Silica	14808-60-7	TWA (Res- pirable dust)	0.05 mg/m3	OSHA Z-1
		TWA (respir- able)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respir- able)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m3 (Silica)	ACGIH
Manganese Oxide	1313-13-9	C	5 mg/m3 (Manganese)	OSHA Z-1
		TWA (Inhal- able particu- late matter)	0.1 mg/m3 (Manganese)	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	0.02 mg/m3 (Manganese)	ACGIH
manganese	7439-96-5	C (Fumes)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able particu- late matter)	0.1 mg/m3 (Manganese)	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	0.02 mg/m3 (Manganese)	ACGIH
aluminium oxide	1344-28-1	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m3	OSHA Z-1
		TWA (Res- pirable par- ticulate mat- ter)	1 mg/m3 (Aluminum)	ACGIH
calcium oxide	1305-78-8	TWA	2 mg/m3	ACGIH
		TWA	5 mg/m3	OSHA Z-1
magnesium oxide	1309-48-4	TWA (Inhal-	10 mg/m3	ACGIH

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					able particu- late matter)			
					TWA (fume, total particu- late)	15 mg/m3	OSHA Z-1	
E	Engineering measures :		:	If user operations generate dust, fumes or mist, use ventila- tion to keep exposure to airborne contaminants below the exposure limit.				
Р	Personal p	protective equipme	ent					
R	Respiratory protection		:	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: NIOSH approved, air-purifying particulate respirator with N- 95 filters.				
Н	Hand protection Material :		:	Permeation resistant gloves.				
E	Eye protec	tion	:	Tightly fitting s	afety goggles			
S	Skin and body protection : Hygiene measures :		:	Wear suitable protective clothing.				
н			Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.					

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Odor Threshold	: No data available
Odor	: odorless
Color	: brown
Physical state	: solid
Appearance	: powder



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	рН		:	No data available	
	Melting	point/range	:	No data available	
	Boiling	point/boiling range	:	No data available	
	Flash p	point	:	Not applicable	
	Evapor	ation rate	:	No data available	9
	Self-igr	nition	:	Autoignition temp	perature
	Burning	g number	:	No data available	•
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	oressure	:	Not applicable	
	Relativ	e density	:	No data available	•
	Density	/	:	No data available	•
	Bulk de	ensity	:	300 - 1,000 kg/m	3
	Solubili Wat	ity(ies) er solubility	:	slightly soluble	
	Solu	ubility in other solvents	:	No data available	)
	Partitio octanol	n coefficient: n- /water	:	No data available	•
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, dynamic	:	Not applicable	
	Visc	cosity, kinematic	:	No data available	9
	Explosi	ve properties	:	No data available	9
	Oxidizii	ng properties	:	No data available	

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SECT	ION 10. STABILITY AND RE	EAC	ΤΙVITY	
	eactivity	:		lata related to reactivity available for this redients.
С	Chemical stability		The product is ch	nemically stable.
	ossibility of hazardous reac- ons	:	Under normal co tions will not occ	nditions of storage and use, hazardous reac- ur.
С	Conditions to avoid		No specific data.	
Ir	Incompatible materials		No specific data.	
	azardous decomposition roducts	:	No decompositio	n if stored and applied as directed.

#### SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

#### Information on likely routes of exposure

Inhalation Ingestion Eye contact Skin contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components:		
manganese: Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
aluminium oxide: Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
calcium oxide: Acute oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 425 GLP: yes



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Acute	e dermal toxicity		, male and female): > 5,000 mg/kg D Test Guideline 402
magn	esium oxide:		
Acute	oral toxicity	: LD50 (Rat): >	5,000 mg/kg
	corrosion/irritation es skin irritation.		
Com	oonents:		
Mang	anese Oxide:		
Speci Expos Metho Resul GLP	sure time od	: Rabbit : 4 h : OECD Test G : No skin irritati : yes	
alumi	inium oxide:		
Speci		: Rabbit	
Metho		: OECD Test G	uideline 404
Resul	t	: No skin irritati	on
calciu	um oxide:		
Resul	t	: Irritating to sk	in.
Phos	phorus Pentoxide:		
Asses	ssment	: Causes sever	e burns.
	<b>us eye damage/eye</b> i es serious eye damag		
<u>Comp</u>	oonents:		
Mang	anese Oxide:		
Speci		: Rabbit	
Resul		: No eye irritati : 72 h	on
Expos Metho	sure time od	: OECD Test G	uideline 405
GLP		: yes	
alumi	inium oxide:		
		: Rabbit	
Speci			
Speci Resul Metho	t	: No eye irritati : OECD Test G	

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	<b>calciur</b> Result	n oxide:	:	Risk of serious d	amage to eyes.
	Respiratory or skin sensiti			on	
	••••••	ensitization ssified based on availa	able	information.	
	-	atory sensitization ssified based on availa	able	information.	
	Compo	onents:			
	Test Ty	nese Oxide: /pe of exposure	:	Local lymph nod Skin contact	e assay (LLNA)
	Species Methoo Result GLP		:	Mouse OECD Test Guid Did not cause se yes	leline 429 nsitization on laboratory animals.
	-	ium oxide:	•	yee	
	Test Ty	/pe of exposure	:	Draize Test Skin contact Guinea pig Did not cause se	nsitization on laboratory animals.
	Germ cell mutagenicity Not classified based on available information.				
	<u>Compo</u>	onents:			
	Manga	nese Oxide:			
	Genoto	xicity in vitro	:	Metabolic activat	s test monella typhimurium ion: with and without metabolic activation Fest Guideline 471
				Test system: Hu Metabolic activat	nosome aberration test in vitro man lymphocytes ion: with and without metabolic activation Fest Guideline 473

Result: negative GLP: yes

Test Type: In vitro mammalian cell gene mutation test



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		Metabolic activ	nouse lymphoma cells ation: with and without metabolic activation 9 Test Guideline 476 e
Genc	otoxicity in vivo	: Test Type: Mic Species: Mous Cell type: In red Application Rod Method: OECD Result: negativ GLP: yes	e (female) d blood cells ute: Oral 9 Test Guideline 474
alum	inium oxide:		
	otoxicity in vitro	: Test system: B Method: OECD Result: negativ	Test Guideline 471
Phos	sphorus Pentoxide:		
Genc	otoxicity in vitro	Metabolic activ Method: OECD Result: negativ GLP: yes	almonella typhimurium ation: with and without metabolic activation ) Test Guideline 471
		Method: OECD Result: negativ GLP: yes	scherichia coli ation: with and without metabolic activation ) Test Guideline 471
		Test system: C Metabolic activ Method: OECD Result: negativ	omosome aberration test in vitro hinese hamster lung cells ation: with and without metabolic activation Test Guideline 473 e results on an analogous product
		Test system: C Metabolic activ	itro mammalian cell gene mutation test hinese hamster fibroblasts ation: with and without metabolic activation Test Guideline 476 e



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	May ca <u>Compo</u>	ogenicity use cancer. onents:				
	Result	lline Quartz Silica:	:	fibrotic lung dama	ure to airborne crystalline silica can cause age, with scarring of the lungs with cough a	
				ly a slowly develo ly delayed for 10 chest pain, breath scarring develope	th. This is called "Silicosis". This is generation of the series of the	al- e
	IARC	Group 1: Card Crystalline Qu (Silica dust, c	uart		14808-60-7	
	OSHA					
	NTP	Crystalline Qu	uart	aan carcinogen z Silica e (Respirable Size)	14808-60-7	
	•	<b>fuctive toxicity</b> ssified based on availa	able	information.		
	Compo	onents:				
	-	nese Oxide: on fetal development	:	Species: Rat, ferr Application Route Frequency of Tre General Toxicity Developmental T	yo-fetal development hale e: inhalation (dust/mist/fume) atment: 6 hours/day Maternal: NOAEL: 5 mg/m <sup>3</sup> oxicity: NOAEL: 15 mg/m <sup>3</sup> est Guideline 414	
		n oxide: on fetal development	:		e Treatment: 10 d oxicity: NOAEL: >= 680 mg/kg body weigh est Guideline 414	t



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			General Toxicity Developmental 1	e: Oral e Treatment: 10 d Maternal: NOAEL: >= 440 mg/kg body weight oxicity: NOAEL: >= 440 mg/kg body weight Fest Guideline 414
	<b>F-single exposure</b> lassified based on ava	ailable	information.	
Com	ponents:			
alum	inium oxide:			
Asse	ssment	:	May cause respi	ratory irritation.
calci	um oxide:			
Asse	ssment	:	May cause respi	ratory irritation.
magr	nesium oxide:			
Asse	ssment	:	May cause respi	ratory irritation.
Caus May o				ed or repeated exposure if inhaled. tem) through prolonged or repeated exposure.
Cryst	talline Quartz Silica:			
Targe	es of exposure et Organs ssment	:	Inhalation Lungs Causes damage exposure.	to organs through prolonged or repeated
Mang	ganese Oxide:			
Targe	es of exposure et Organs ssment	:		r mixture is classified as specific target organ d exposure, category 2.
mang	ganese:			
Targe	et Organs ssment	:	Central nervous May cause dama exposure.	system age to organs through prolonged or repeated

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Ro Tar	<b>minium oxide:</b> utes of exposure get Organs sessment	: Inhalation : Lungs : May cause dam	age to organs through prolonged or repeated
	peated dose toxicity mponents <u>:</u>	exposure.	
<b>ma</b> Spe NO	<b>gnesium oxide:</b> ecies AEL	: Rat : < 1,120 mg/m³	
Exp Rei	olication Route posure time marks	: Inhalation : 29 d : Chronic toxicity	
Not	piration toxicity t classified based on availa NN 12. ECOLOGICAL INF		

### Ecotoxicity

### Components:

### Manganese Oxide:

Toxicity to fish	:	LC0 (Oncorhynchus mykiss (rainbow trout)): > 0.073 mg/l Exposure time: 96 h Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes Remarks: Fresh water No toxicity at the limit of solubility.
Toxicity to daphnia and other aquatic invertebrates	:	EC0 (Daphnia magna (Water flea)): > 0.073 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes Remarks: Fresh water No toxicity at the limit of solubility.
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 0.073 mg/l End point: Growth rate Exposure time: 72 h



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			Analytical monito Method: OECD T GLP: yes Remarks: Fresh No toxicity at the	est Guideline 201 water
aquat	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		Exposure time: 8 Analytical monito	ring: yes ēst Guideline 211
Toxic	Toxicity to microorganisms		End point: Respir Exposure time: 3 Analytical monito	h vring: no Fest Guideline 209 water
			End point: Respir Exposure time: 3 Analytical monito	h iring: no Test Guideline 209 water
Ecoto	oxicology Assessment			
Acute	aquatic toxicity	:	This product has	no known ecotoxicological effects.
Chror	nic aquatic toxicity	:	This product has	no known ecotoxicological effects.
mang	janese:			
Toxic	ity to fish	:	LC50 (Leuciscus Exposure time: 4	idus (Golden orfe)): > 1,000 mg/l 8 h
alumi	inium oxide:			
	ity to fish	:	Exposure time: 9	tta (brown trout)): > 100 mg/l 6 h Test Guideline 203
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): > 100 mg/l 8 h
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			Method: OECD Te GLP: yes	est Guideline 202	
Toxicity to algae/aquatic plants		:	EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes		
calciu	um oxide:				
Toxic	ity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 50.6 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes Remarks: Fresh water		
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te GLP: yes		
Toxic plants	ity to algae/aquatic	:	EC10 (Pseudokiro mg/l Exposure time: 72 Method: OECD To GLP: yes		
			EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To GLP: yes		
Toxic	ity to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD Te GLP: yes		
magn	esium oxide:				
Toxic	ity to fish	:	LC50 (Fish): > 10 Exposure time: 96		
	Toxicity to daphnia and other : aquatic invertebrates		EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h		
Phos	phorus Pentoxide:				
	ity to fish	:	LC50 (Danio rerio Exposure time: 96 Test Type: static t		



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		Analytical mon Method: OECI GLP: yes Remarks: Fres	) Test Guideline 203	
	city to daphnia and other tic invertebrates	Exposure time Test Type: stat Analytical mon	tic test itoring: yes ) Test Guideline 202	
Toxic plant	city to algae/aquatic s	End point: Gro Exposure time Analytical mon	: 72 h itoring: yes ) Test Guideline 201	
		End point: Gro Exposure time Analytical mon	: 72 h itoring: yes ) Test Guideline 201	
Toxic	city to microorganisms	End point: Res Exposure time Analytical mon	itoring: no ) Test Guideline 209	
Pers	istence and degradabi	lity		
<u>Com</u>	ponents:			
	ganese Oxide: egradability		ethods for determining the biological degradabil- icable to inorganic substances.	
<b>manganese:</b> Biodegradability			Result: The methods for determining the biological degradabil- ity are not applicable to inorganic substances.	

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	minium oxide:					
BIC	degradability	:	: Remarks: The methods for determining the biological degra- dability are not applicable to inorganic substances.			
ma	gnesium oxide:					
Bic	Biodegradability		: Result: The methods for determining the biological degradabil ity are not applicable to inorganic substances.			
Ph	osphorus Pentoxide:					
Bic	Biodegradability			ods for determining the biological degradabil- ble to inorganic substances.		
Bio	paccumulative potential					
No	data available					
Мо	bility in soil					
No	No data available Other adverse effects					
Ot						
No	data available					

#### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

RCRA - Resource Conserva- tion and Recovery Authoriza- tion Act	:	If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. Howev- er, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material contain- ing the product or derived from the product should be classi- fied as a hazardous waste. (40 CFR 261.20-24)
Waste from residues	:	The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Empty containers retain product residue; observe all precau- tions for product. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.

#### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

#### IATA-DGR

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Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **Domestic regulation**

<b>49 CFR</b> UN/ID/NA number Proper shipping name Class Packing group Labels	: : : : : : : : : : : : : : : : : : : :	UN 3077 Environmentally hazardous substance, solid, n.o.s. (ARSENIC, LEAD) 9 III 9
ERG Code RQ Marine pollutant When in individual containers Hazard and Handling Notes.	: of l	171 2,403.85 lb no ess than the Product RQ, this material ships as non-regulated.

Risk of serious damage to eyes, Keep separated from foodstuffs

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **SECTION 15. REGULATORY INFORMATION**

#### CERCLA Reportable Quantity

Components	CAS-No.		Calculated product RQ
		(lbs)	(lbs)
arsenic	7440-38-2	1	2403
lead	7439-92-1	10	29940

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Carcinogenicity Specific target organ toxicity (single or repeated exposure) Skin corrosion or irritation Serious eye damage or eye irritation 622



Version 1.2	Revision Date: 10/19/2022		DS Number: 5000001109	Date of last issue: 10 Country / Language:				
SARA 313		:		The following components are subject to reporting levels es- tablished by SARA Title III, Section 313:				
			Manganese Ox- ide	1313-13-9	>= 10 - < 20 %			
			manganese	7439-96-5	>= 5 - < 10 %			
			aluminium oxide	1344-28-1	>= 1 - < 5 %			
US St	ate Regulations							
Mass	achusetts Right To Kn	ow						
	Crystalline Quartz S		1	14808-60-7	10 - 20			
	manganese			7439-96-5	5 - 10			
	aluminium oxide			1344-28-1	1 - 5			
	calcium oxide			1305-78-8	1 - 3			
	magnesium oxide			1309-48-4	1 - 5			
	Phosphorus Pentox	ide		1314-56-3	1 - 3			
	arsenic			7440-38-2	< 1			
	chromium			7440-47-3	< 1			
	Cadmium			7440-43-9	< 1			
Penns	sylvania Right To Knov	w						
	Umber			12713-03-0	>1			
	Crystalline Quartz S	ilica	1	14808-60-7				
	Manganese Oxide			1313-13-9	10 - 20			
	manganese			7439-96-5	5 - 10			
	water			7732-18-5	> 1			
	aluminium oxide			1344-28-1	1 - 5			
	calcium oxide			1305-78-8	1 - 3			
	magnesium oxide			1309-48-4	1 - 5			
	Phosphorus Pentox	ide		1314-56-3	1 - 3			

#### California Prop. 65

Any chemical(s) listed above which do not appear elsewhere on this SDS are contained in this product at concentrations below 0.1%.

Any chemical(s) listed above which do not appear elsewhere on this SDS are contained in this product at concentrations below 0.1%. Potential exposure to some or all of the California Proposition 65 chemicals in this product have been determined to be below the No Significant Risk Level (NSRL).

WARNING: This product can expose you to chemicals including Crystalline Quartz Silica, arsenic, lead, chromium, Cadmium, which is/are known to the State of California to cause cancer, and lead, chromium, Cadmium, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Any chemical(s) listed above which do not appear elsewhere on this SDS are contained in this product at concentrations below 0.1%.

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Any chemical(s) listed above which do not appear elsewhere on this SDS are contained in this product at concentrations below 0.1%. Potential exposure to some or all of the California Proposition 65 chemicals in this product have been determined to be below the No Significant Risk Level (NSRL).

#### **TSCA** inventory

TSCA

This material is included in the TSCA Inventory as a naturally occuring chemical substance as described in 40 CFR 710.4 (b).

#### **TSCA** list

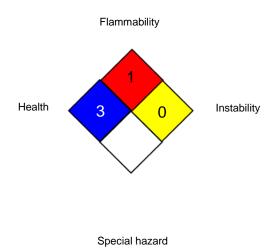
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

#### SECTION 16. OTHER INFORMATION

#### Further information

NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

ACGIH OSHA Z-1		USA. ACGIH Threshold Limit Values (TLV) USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average



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OSHA Z-1 / TWA		: 8-hour time wei	ghted average

OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-1 / C	:	Ceiling
OSHA Z-3 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association: NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Verv Persistent and Verv Bioaccumulative

Revision Date

: 10/19/2022

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.