

Diaseal M® Lost Circulation Material

Version 2.4

Revision Date 2019-08-01

SECTION 1: Identification of the	substance/mixture and of the company/undertaking
Product information	
Product Name Material	 Diaseal M® Lost Circulation Material 1016804, 1017933
Use	: Lost Circulation Material
Company	 Chevron Phillips Chemical Company LP Drilling Specialties Company LLC 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:	
EUROPE: BIG +32.14.58 Mexico CHEMTREC 01-8	onal) 0 or 703.527.3887(int'l) 2 9186 1132) China: 0532 8388 9090 I545 (phone) or +32.14583516 (telefax) 00-681-9531 (24 hours) c Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Responsible Department E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
SECTION 2: Hazards identificat	on
	nce or mixture ied in accordance with the hazard communication standard 29 CFR els contain all the information as required by the standard.
Classification	: Skin irritation, Category 2 Serious eye damage, Category 1 Carcinogenicity, Category 1A, Inhalation
Labeling	
SDS Number:100000014321	1/12

Diaseal M® Lost Circulation Material

Version 2.4

SAFETY DATA SHEET

Revision Date 2019-08-01

Symbol(s)	
Signal Word	: Danger
Hazard Statements	 H315: Causes skin irritation. H318: Causes serious eye damage. H350i: May cause cancer by inhalation.
Precautionary Statements	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.
Carcinogenicity:	
IARC	Group 1: Carcinogenic to humans Crystalline Silica 14808-60-7
NTP	Known to be human carcinogen Crystalline Silica 14808-60-7
TION 3: Composition/info	ormation on ingredients
Synonyms	: LCM Lost Circulation Material
Molecular formula	: Mixture
Component	CAS-No. Weight %
Diatomaceous Earth	61790-53-2 60 - 90
Cellulose	9004-34-6 5 - 15
Calcium Hydroxide	1305-62-0 7 - 13

SAFETY DATA SHEET Diaseal M[®] Lost Circulation Material Version 2.4 Revision Date 2019-08-01 0.1 - 1 Crystalline Silica 14808-60-7 **SECTION 4: First aid measures** General advice Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended. If inhaled : Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. : If skin irritation persists, call a physician. If on skin, rinse well In case of skin contact with water. If on clothes, remove clothes. In case of eye contact : Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. If swallowed : Induce vomiting immediately and call a physician. Keep respiratory tract clear. Never give anything by mouth to an unconscious person. Take victim immediately to hospital. **SECTION 5: Firefighting measures** Flash point : Not applicable Autoignition temperature : Not applicable Unsuitable extinguishing : High volume water jet. media Specific hazards during fire : Standard procedure for chemical fires.

fighting : Wear self-contained breathing apparatus for firefighting if Special protective equipment for fire-fighters necessary. Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation protection at places where dust is formed. Hazardous decomposition : None. products **SECTION 6: Accidental release measures** Personal precautions : Use personal protective equipment. Avoid dust formation. Avoid breathing dust.

Environmental precautions : Prevent product from entering drains. Prevent further leakage SDS Number:100000014321 3/12

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iaseal M® Lost Circ	culati		aterial	_	D
ersion 2.4				Revisi	on Date 2019-08-0
				so. If the product contain from respective authorities	
Methods for cleaning up	:	Keep in	suitable, close	d containers for disposal	
CTION 7: Handling and st	orage				
Handling					
Advice on safe handling		vapors/c before u protectic be prohi exchang	dust. Avoid exp ise. Avoid cont on see section bited in the app ge and/or exhau	birable particles. Do not bosure - obtain special in tact with skin and eyes. 8. Smoking, eating and blication area. Provide s ust in work rooms. Dispo th local and national reg	nstructions For personal drinking should ufficient air pse of rinse
Advice on protection against fire and explosion			ust formation. I s where dust is	Provide appropriate exha formed.	aust ventilation
Storage					
Requirements for storage areas and containers		Observe	e label precautio	closed in a dry and well- ons. Electrical installatic	
			s must comply	with the technological sa	afety standards.
Use	:		s must comply culation Materia	-	afety standards.
Use CTION 8: Exposure contro		Lost Cire	culation Materia	-	afety standards.
CTION 8: Exposure contro	ols/pers ace con	Lost Circ conal pro	culation Materia	al	
CTION 8: Exposure contro Ingredients with workpla	ols/pers ace con Basis	Lost Circ conal pro	culation Materia otection ameters Value	al Control parameters	afety standards.
CTION 8: Exposure contro Ingredients with workpla	ols/pers ace con	Lost Circ conal pro trol para z-1-A	culation Materia	al	
CTION 8: Exposure contro Ingredients with workpla	Basis OSHA OSHA	Lost Circ sonal pro atrol para Z-1-A Z-3 Z-3	culation Materia otection ameters Value TWA TWA TWA TWA	al Control parameters 6 mg/m3 20Million particles per cubic foot 80mg/m3 / %SiO2	Note a, Dust Dust
CTION 8: Exposure contro Ingredients with workpla	Basis OSHA OSHA OSHA	Lost Ciro conal pro trol para Z-1-A Z-3 Z-3	culation Materia otection ameters Value TWA TWA TWA TWA TWA TWA	al <u>Control parameters</u> <u>6 mg/m3</u> <u>20Million particles per</u> <u>cubic foot</u> <u>80mg/m3 / %SiO2</u> <u>5 mg/m3</u>	Note a, Dust Dust URT irr, eye irr, skin irr
CTION 8: Exposure contro Ingredients with workpla	Basis OSHA OSHA OSHA ACGIE OSHA	Lost Ciro conal pro trol para Z-1-A Z-3 Z-3 H Z-3 H Z-3 H	culation Materia otection ameters Value TWA TWA TWA TWA TWA TWA TWA TWA	al Control parameters 6 mg/m3 20Million particles per cubic foot 80mg/m3 / %SiO2 5 mg/m3 15 mg/m3	Note a, Dust Dust URT irr, eye irr, skin irr total dust
CTION 8: Exposure contro Ingredients with workpla omponents atomaceous Earth	Basis OSHA OSHA OSHA	Lost Ciro conal pro- atrol para Z-1-A Z-3 Z-3 H Z-1 Z-1 Z-1	culation Materia otection ameters Value TWA TWA TWA TWA TWA TWA	al <u>Control parameters</u> <u>6 mg/m3</u> <u>20Million particles per</u> <u>cubic foot</u> <u>80mg/m3 / %SiO2</u> <u>5 mg/m3</u>	Note a, Dust Dust URT irr, eye irr, skin irr
CTION 8: Exposure contro Ingredients with workpla omponents atomaceous Earth alcium Hydroxide	Basis OSHA OSHA OSHA OSHA OSHA OSHA OSHA OSHA	Lost Ciro sonal pro trol para 	culation Materia	Al Control parameters 6 mg/m3 20Million particles per cubic foot 80mg/m3 / %SiO2 5 mg/m3 15 mg/m3 5 mg/m3 10 mg/m3	Note a, Dust Dust URT irr, eye irr, skin irr total dust respirable fraction i, URT irr, NA,
CTION 8: Exposure contro Ingredients with workpla omponents atomaceous Earth	Basis OSHA OSHA OSHA OSHA OSHA OSHA OSHA OSHA	Lost Ciro conal pro- atrol para Z-1-A Z-3 Z-3 Z-3 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1-A Z-1 Z-1-A Z-1-A Z-1-A Z-1-A	culation Materia	Al Control parameters 6 mg/m3 20Million particles per cubic foot 80mg/m3 / %SiO2 5 mg/m3 15 mg/m3 5 mg/m3 10 mg/m3 15 mg/m3	Note a, Dust Dust URT irr, eye irr, skin irr total dust respirable fraction i, URT irr, NA, total dust
CTION 8: Exposure contro Ingredients with workpla omponents atomaceous Earth alcium Hydroxide	DIS/pers ace con Basis OSHA OSHA ACGII OSHA OSHA ACGII OSHA ACGII OSHA	Lost Ciro sonal pro atrol para Z-1-A Z-3 Z-3 Z-3 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1	culation Materia	al Control parameters 6 mg/m3 20Million particles per cubic foot 80mg/m3 / %SiO2 5 mg/m3 15 mg/m3 5 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3	Note a, Dust Dust URT irr, eye irr, skin irr total dust respirable fraction i, URT irr, NA, total dust respirable fraction
CTION 8: Exposure contro Ingredients with workpla omponents atomaceous Earth alcium Hydroxide	DIS/pers ace con Basis OSHA OSHA ACGII OSHA OSHA ACGII OSHA OSHA OSHA	Lost Ciro conal pro- atrol para Z-1-A Z-3 Z-3 Z-3 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1	culation Materia	Control parameters 6 mg/m3 20Million particles per cubic foot 80mg/m3 / %SiO2 5 mg/m3 15 mg/m3 5 mg/m3 10 mg/m3 15 mg/m3 15 mg/m3 20 mg/m3	Note a, Dust Dust URT irr, eye irr, skin irr total dust respirable fraction i, URT irr, NA, total dust respirable fraction Total dust
CTION 8: Exposure contro Ingredients with workpla omponents atomaceous Earth alcium Hydroxide	DIS/pers ace con Basis OSHA OSHA ACGII OSHA OSHA ACGII OSHA ACGII OSHA	Lost Ciro conal pro- trol para Z-1-A Z-3 Z-3 Z-3 Z-3 Z-1 Z-1-A Z-1 Z-1-A Z-1 Z-1-A Z-1 Z-1-A Z-1-A Z-1-A	culation Materia	al Control parameters 6 mg/m3 20Million particles per cubic foot 80mg/m3 / %SiO2 5 mg/m3 15 mg/m3 5 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3	Note a, Dust Dust URT irr, eye irr, skin irr total dust respirable fraction i, URT irr, NA, total dust respirable fraction Total dust
CTION 8: Exposure contro Ingredients with workpla omponents atomaceous Earth alcium Hydroxide	DIS/pers ace con Basis OSHA OSHA OSHA OSHA OSHA OSHA OSHA OSHA	Lost Ciro conal pro- trol para Z-1-A Z-1 Z-1-A Z-1 Z-1-A Z-1 Z-1-A Z-1 Z-1-A Z-1 Z-1-A Z-1 Z-1-A Z-1-A Z-1-A Z-1-A Z-1-A Z-1-A Z-1-A	culation Materia	Control parameters 6 mg/m3 20Million particles per cubic foot 80mg/m3 / %SiO2 5 mg/m3 15 mg/m3 5 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3	Note a, Dust Dust URT irr, eye irr, skin irr total dust respirable fraction i, URT irr, NA, total dust respirable fraction Total dust respirable fraction
CTION 8: Exposure contro	DIS/pers ace con Basis OSHA OSHA OSHA OSHA OSHA OSHA OSHA OSHA	Lost Ciro conal pro- trol para Z-1-A Z-3 Z-3 Z-1 Z-1-A Z-1 Z-1-A Z-1 Z-1-A Z-1 Z-1-A Z-1 Z-1-A Z-3 Z-3 Z-3 Z-3 Z-3 Z-3	culation Materia	Control parameters 6 mg/m3 20Million particles per cubic foot 80mg/m3 / %SiO2 5 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 25 mg/m3 20 mg/m3 5 mg/m3 25 mg/m3 25 mg/m3 15 mg/m3 5 mg/m3 250mppcf / %SiO2+5 10mg/m3 / %SiO2+2 0.1 mg/m3	Note a, Dust URT irr, eye irr, skin irr total dust respirable fraction i, URT irr, NA, total dust respirable fraction Total dust respirable dust fraction (f), a, b, respirable (f), e, respirable Respirable fraction
CTION 8: Exposure contro Ingredients with workpla omponents iatomaceous Earth alcium Hydroxide	DIS/pers ace con Basis OSHA OSHA OSHA OSHA OSHA OSHA OSHA OSHA	Lost Ciro conal pro- trol para Z-1-A Z-3 Z-3 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1-A I Z-1-A Z-1 Z-1-A Z-3 Z-3 Z-3 Z-3 Z-3	culation Materia	Control parameters 6 mg/m3 20Million particles per cubic foot 80mg/m3 / %SiO2 5 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 250mppcf / %SiO2+5 10mg/m3 / %SiO2+2	Note a, Dust Dust URT irr, eye irr, skin irr total dust respirable fraction i, URT irr, NA, total dust respirable fraction Total dust respirable dust fraction (f), a, b, respirable (f), e, respirable Respirable fraction respirable dust fraction
CTION 8: Exposure contro Ingredients with workpla omponents iatomaceous Earth alcium Hydroxide	DIS/pers ace con Basis OSHA OSHA OSHA OSHA OSHA OSHA OSHA OSHA	Lost Ciro conal pro- atrol para Z-1-A Z-3 Z-3 Z-3 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1 Z-1	culation Materia	Control parameters 6 mg/m3 20Million particles per cubic foot 80mg/m3 / %SiO2 5 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 25 mg/m3 20 mg/m3 5 mg/m3 25 mg/m3 25 mg/m3 15 mg/m3 5 mg/m3 250mppcf / %SiO2+5 10mg/m3 / %SiO2+2 0.1 mg/m3	Note a, Dust Dust URT irr, eye irr, skin irr total dust respirable fraction i, URT irr, NA, total dust respirable fraction Total dust respirable dust fraction (f), a, b, respirable Respirable fraction respirable dust fraction in generation in
CTION 8: Exposure contro Ingredients with workpla	DIS/pers ace con Basis OSHA OSHA OSHA OSHA OSHA OSHA OSHA OSHA	Lost Ciro sonal pro trol para Z-1-A Z-3 Z-3 Z-1 Z-1-A Z-1 Z-1-A Z-1 Z-1-A Z-1 Z-1-A Z-1 Z-3 Z-3 Z-3 Z-3 Z-3 Z-3 Z-3 Z-3 Z-1-A Z-3 Z-3 Z-3 Z-1-A	culation Materia	Control parameters 6 mg/m3 20Million particles per cubic foot 80mg/m3 / %SiO2 5 mg/m3 15 mg/m3 5 mg/m3 10 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 10 mg/m3 5 mg/m3 0.1 mg/m3 0.1 mg/m3	Note a, Dust Dust URT irr, eye irr, skin irr total dust respirable fraction i, URT irr, NA, total dust respirable fraction Total dust respirable dust fraction (f), a, b, respirable (f), e, respirable (f), e, respirable Respirable fraction respirable dust fraction lung cancer, pulm fibrosis, A2, Respirable

(f) This standard applies to any operations or sectors for which the respirable crystalline silica standard, 1910.1053, is stayed or is

(i) This statute applied to any operations of occurs is mind at respirate of yearing care statutes, is respectively, is any other statutes, is a statute of the statutes of the s

Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size-selector with the following characteristics: Aerodynamic diameter (unit density sphere): 2; Percent passing selector: 90 Aerodynamic е

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diameter (unit density sphere): 2,5; Percent passing selector: 75 Aerodynamic diameter (unit density sphere): 3,5; Percent passing selector: 50 Aerodynamic diameter (unit density sphere): 5,0; Percent passing selector: 25 Aerodynamic diameter (unit density sphere): 10; Percent passing selector: 0 The measurements under this note refer to the use of an AEC (now NRC) instrument. The respirable fraction of coal dust is determined with an MRE; the figure corresponding to that of 2.4 mg/m3 in the table for coal dust is 4.5 mg/m3.
 eye irr Eye irritation

 The TWA PEL of 5 mg/m3 is not in effect as a result of reconsideration. Calcium hydroxide is covered by the exposure limits for particulates not otherwise regulated of 5 mg/m3 respirable dust and 15 mg/m3 total dust.

 lung cancer NA Not applicable

pulm fibrosis Pulmonary fibrosis

skin irr Skin irritation

URT irr Upper Respiratory Tract irritation

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Crystalline Silica	14808-60-7	Immediately Dangerous to Life or Health Concentration Value 50 mg/m ³	1995-03-01

Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection	: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material ma occur, such as:. Air-Purifying Respirator for Dusts and Mists P100. Use a positive pressure, air-supplying respirator if the is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirator may not provide adequate protection.	ay s / ere
Hand protection	: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough tim which are provided by the supplier of the gloves. Also take in consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and th contact time. Gloves should be discarded and replaced if the is any indication of degradation or chemical breakthrough.	ne nto he
Eye protection	: Eye wash bottle with pure water. Tightly fitting safety goggle	es.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place Wear as appropriate:. Protective suit. Safety shoes.) <u>.</u>
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.	
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SE	ECTION 9: Physical and chem	ical	properties	
	Information on basic physi	cal a	and chemical properties	
	Appearance			
	Physical state Color Odor		Solid Light brown Mild, earthy	
	Safety data			
	Flash point	:	Not applicable	
	Lower explosion limit	:	Not applicable	
	Upper explosion limit	:	Not applicable	
	Oxidizing properties	:	no	
	Autoignition temperature	:	Not applicable	
	Molecular formula	:	Mixture	
	Molecular weight	:	Not applicable	
	рН	:	Not applicable	
	Pour point	:	No data available	
	Boiling point/boiling range	:	Not applicable	
	Vapor pressure	:	Not applicable	
	Relative density	:	2 Water = 1.0	
	Bulk density	:	20.2 LB/FT3	
	Water solubility	:	No data available	
	Partition coefficient: n- octanol/water Viscosity, kinematic	:	No data available No data available	
		•		
	Relative vapor density	:	Not applicable	
	Evaporation rate	:	No data available	

SECTION 10: Stability and reactivity

Reactivity

: Stable at normal ambient temperature and pressure.

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sion 2.4	Revision Date 2019-08
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous rea	actions
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.
	Further information: No decomposition if stored and applied as directed.
Conditions to avoid	: Generation of Dusts.
Materials to avoid Hazardous decomposition products	: Strong acids. : None
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological infor	mation
Acute oral toxicity	
Calcium Hydroxide	: LD50: 7,340 mg/kg Species: Rat
Diaseal M® Lost Circulation Skin irritation	Material : Irritating to skin.
Diaseal M® Lost Circulation Eye irritation	Material : Risk of serious damage to eyes.
Diaseal M® Lost Circulation Aspiration toxicity	
CMR effects	
Crystalline Silica	: Carcinogenicity: Positive evidence from human epidemiological studies (inhalation)
Further information	
Crystalline Silica	: Chronic Health Hazard.
TION 12: Ecological informa	tion
Ecotoxicity effects	
Toxicity to fish	
	: LC50: 160 mg/l

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		Exposure time: 96 h Species: Gambusia affinis (Fish, fresh water) static test
Biodegradability	:	Not applicable
Elimination information (persiste	en	ce and degradability)
Bioaccumulation	:	This material is not expected to bioaccumulate.
Mobility	:	immobile
Results of PBT assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Additional ecological information	:	This material is not expected to be harmful to aquatic organisms.
Ecotoxicology Assessment		
Short-term (acute) aquatic hazard	:	This material is not expected to be harmful to aquatic organisms.
Long-term (chronic) aquatic hazard	:	This material is not expected to be harmful to aquatic organisms.
	•	
SECTION 13: Disposal considerat	10	115
The information in this SDS per	ta	ins only to the product as shipped.
may meet the criteria of a hazar other State and local regulation regulated components may be	rdo s. ne	ose or recycle if possible. This material, if it must be discarded, bus waste as defined by US EPA under RCRA (40 CFR 261) or Measurement of certain physical properties and analysis for cessary to make a correct determination. If this material is

regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product	: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

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	PARTMENT OF TRANSPORTATION)
NOT REGULATED AS A HA TRANSPORTATION BY TH	ZARDOUS MATERIAL OR DANGEROUS GOODS FOR
	. MARITIME DANGEROUS GOODS) AZARDOUS MATERIAL OR DANGEROUS GOODS FOR IS AGENCY.
IATA (INTERNATIONAL AIR T NOT REGULATED AS A HA TRANSPORTATION BY TH	ZARDOUS MATERIAL OR DANGEROUS GOODS FOR
	SEROUS GOODS BY ROAD (EUROPE)) AZARDOUS MATERIAL OR DANGEROUS GOODS FOR IS AGENCY.
	NING THE INTERNATIONAL TRANSPORT OF
DANGEROUS GOODS (EURO NOT REGULATED AS A HA TRANSPORTATION BY TH	AZARDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS BY	ZARDOUS MATERIAL OR DANGEROUS GOODS FOR
Transport in bulk according to An SECTION 15: Regulatory informati	nex II of MARPOL 73/78 and the IBC Code ion
National legislation	
SARA 311/312 Hazards :	Serious eye damage or eye irritation Carcinogenicity Skin corrosion or irritation
CERCLA Reportable : Quantity	This material does not contain any components with a CERCLA RQ.

SARA 302 Reportable : This material does not contain any components with a SARA 302 RQ.

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SARA 302 Threshold Planning Quantity	: This material does not contain any components with a section 302 EHS TPQ.
SARA 304 Reportable Quantity	: This material does not contain any components with a section 304 EHS RQ.
SARA 313 Components	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
Clean Air Act	
Potential Class	product neither contains, nor was manufactured with a Class I or II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR ubpt. A, App.A + B).
This product does not contai Act Section 112 (40 CFR 61	in any hazardous air pollutants (HAP), as defined by the U.S. Clean Ai).
	in any chemicals listed under the U.S. Clean Air Act Section 112(r) for on (40 CFR 68.130, Subpart F).
This product does not contai Intermediate or Final VOC's	in any chemicals listed under the U.S. Clean Air Act Section 111 SOCI (40 CFR 60.489).
US State Regulations	
Pennsylvania Right To Knov	: Diatomaceous Earth - 61790-53-2 Calcium Hydroxide - 1305-62-0 Cellulose - 9004-34-6
California Prop. 65 Components	 Crystalline Silica - 14808-60-7 WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov/food.

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Notification status Europe REACH	: This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006 (REACH).
Switzerland CH INV United States of America (USA) TSCA Canada DSL	 On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory All components of this product are on the Canadian
Australia AICS New Zealand NZIoC Japan ENCS Korea KECI	 DSL On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance.
Philippines PICCS China IECSC Taiwan TCSI	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory
CTION 16: Other information	
NFPA Classification :	Health Hazard: 3 Fire Hazard: 1 Reactivity Hazard: 0
Further information	
	59340
Legacy SDS Number :	
Legacy SDS Number : Significant changes since the lat previous versions.	59340
Legacy SDS Number : Significant changes since the las previous versions. The information in this SDS perf The information provided in this information and belief at the date guidance for safe handling, use, not to be considered a warranty	59340 st version are highlighted in the margin. This version replaces all ains only to the product as shipped. Safety Data Sheet is correct to the best of our knowledge, e of its publication. The information given is designed only as a processing, storage, transportation, disposal and release and is or quality specification. The information relates only to the may not be valid for such material used in combination with any
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Diaseal M® Lost Circulation Material

Version 2.4

Revision Date 2019-08-01

AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect
DSL	Substances Canada, Domestic Substances	NFPA	Level National Fire Protection Agency
NDSL	List Canada, Non-Domestic	NIOSH	National Institute for Occupational
_	Substances List		Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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