

Diaseal M® Lost Circulation Material

Version 1.2

Revision Date 2025-05-02

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 9500 Lakeside Blvd. The Woodlands, TX 77381
Emergency telephone:	
Asia: CHEMWATCH (Mexico CHEMTREC 0 South America SOS-C Argentina: +(54)-1159 EUROPE: BIG +32.14 Austria: VIZ +43 1 406 Belgium: 070 245 245 Bulgaria: +359 2 9154 Croatia: +3851 2348 3 Cyprus: 1401 Czech Republic: Toxic Denmark: Danish Pois Estonia: BIG +32.14.5 Finland: 0800 147 111 France: ORFILA numb Germany: BIG +32.14. Greece: (0030) 21077 Hungary: +36-80-201- Iceland: 543 2222 (24	national) .9300 or 703.527.3887(int'l) +612 9186 1132) China: 0532 8388 9090 01-800-681-9531 (24 hours) Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 839431 4.584545 (phone) or +32.14583516 (telefax) 6 43 43 (24 hours/day, 7 days/week) (24 hours/day, 7 days/week)
SDS Number:100000014321	1/12

Diaseal M® Lost Circulation Material

SAFETY DATA SHEET

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Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME - Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME - Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA - IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO - Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA - Azienda Ospedaliera Universitaria integrata Tel. 800 011 858: Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.) Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week) Malta: +356 2395 2000 The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week) Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Portugal: CIAV phone number: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week) Sweden: 112 – ask for Poisons Information : Product Safety and Toxicology Group Responsible Department E-mail address SDS@CPChem.com Website www.CPChem.com **SECTION 2: Hazards identification** Classification of the substance or mixture GHS Classification and labelling according to JIS Z 7252-2019 and JIS Z 7253-2019 (GHS 2015) Classification : Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 1 Carcinogenicity, Category 1A Specific target organ toxicity - single exposure, Category 1, respiratory system Labeling Symbol(s)

Signal Word

Hazard Statements

H315: Causes skin irritation. H318: Causes serious eye damage. H350: May cause cancer.

Danger

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	H370: Causes damage to organs (respiratory system).
Precautionary Statements :	 Prevention: P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264: Wash skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P302 + P352: IF ON SKIN: Wash with plenty of 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 + P311: IF exposed or concerned: Call a POISON CENTER/ doctor. P332 + P364: Take off contaminated clothing and wash it before reuse. Storage: P405: Store locked up. Disposal: P501: Dispose of contents/ container to an approved wasted disposal plant.

Synonyms	: LCM Lost Circulation	Material	
Molecular formula	: Mixture		
Chemical name	CAS-No.	Concentration	ENCS/ISHL number
Diatomaceous Earth	61790-53-2	60 % - 90%	
Cellulose	9004-34-6	5 % - 15%	(8)-568
Calcium Hydroxide	1305-62-0	7 % - 13%	1-181
Crystalline Silica	14808-60-7	0.1 % - 1%	1-548

General advice	: Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.	
If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.	
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arsion 1.2 Revision Date 2025-02 In case of skin contact If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes. In case of eye contact Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. If swallowed If keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. Autoignition temperature Not applicable Unsuitable extinguishing If ligh volume water jet. Special protective Do not allow run-off from fire fighting to enter drains or water courses. Special protective Wear self-contained breathing apparatus for firefighting if necessary. Further information Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Fire and explosion Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. CTION 6: Accidental release measures Prevent product formation. Avoid breathing dust.	aseal M® Lost Circu	lat	SAFETY DATA SHEE
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Advice on safe handling	:	Avoid formation of respirable particles. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Storage		
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Use	:	Lost Circulation Material

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

JP				
Components	Basis	Value	Control parameters	Note
Diatomaceous Earth	JP OEL JSOH	OEL-M	0.5 mg/m3	Respirable dust
	JP OEL JSOH	OEL-M	2 mg/m3	Total dust
Cellulose	JP OEL JSOH	OEL-M	2 mg/m3	Respirable dust
	JP OEL JSOH	OEL-M	8 mg/m3	Total dust
Crystalline Silica	JP OEL JSOH	OEL-C	0.03 mg/m3	1, Respirable particulate matter

1 Group 1: carcinogenic to humans

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	: If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Dusts and Mists / P100. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
Hand protection	: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe
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Bulk density

Water solubility SDS Number:100000014321

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	the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	: Eye wash bottle with pure water.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Protective suit. Complete head face and neck protection. Footwear protecting against chemicals. Safety shoes.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
CTION 9: Physical and chem	cal properties
Information on basic physi	cal 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

: 20.2 LB/FT3

: No data available

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Partition coefficient: n-	: No data available
octanol/water Viscosity, kinematic	: No data available
Relative vapor density	: Not applicable
Evaporation rate	: No data available
TION 10: Stability and rea	ictivity
Reactivity	: Stable at normal ambient temperature and pressure.
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous	reactions
Hazardous reactions	: Further information: No decomposition if stored and applied as directed.
Conditions to avoid	: Generation of Dusts.
Materials to avoid	: Strong acids.
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological in	formation
Acute oral toxicity	
Calcium Hydroxide	: LD50: 7,340 mg/kg Species: Rat
Diaseal M® Lost Circulati Skin irritation	ion Material : Irritating to skin.
Diaseal M® Lost Circulat Eye irritation	ion Material : Risk of serious damage to eyes. May cause irreversible eye damage.
Diaseal M® Lost Circulati Aspiration toxicity	
CMR effects	
Crystalline Silica	: Carcinogenicity: Human carcinogen.
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Further information	: No data available.

SECTION 12: Ecological information

Ecotoxicity effects Toxicity to fish		
Calcium Hydroxide	:	LC50: 160 mg/l Exposure time: 96 h Species: Gambusia affinis (Fish, fresh water) static test
Biodegradability	:	Not applicable
Elimination information (persis	ten	ce and degradability)
Bioaccumulation	:	This material is not expected to bioaccumulate.
Mobility	:	immobile
Additional ecological information	:	This material is not expected to be harmful to aquatic organisms.
		No data available
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 considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for 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

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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. **US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)** NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. **RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))** NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. Maritime transport in bulk according to IMO instruments **SECTION 15: Regulatory information** National legislation **Poisonous and Deleterious Substances Control Law** : Not applicable Industrial Safety and Health Law Substances Subject to be : calcium dihydroxide(317) SDS Number:100000014321 9/12

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Notified Names Law Article 57-2 (Ministerial Order Article 34-2 Appended Table 2)	Crystalline Silica(165の2)
Substances Subject to be Notified Names Law Article	: calcium dihydroxide(317)
57-2 (Ministerial Order Article 34-2 Appended Table 2)	Crystalline Silica(165の2)
Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)	:
Harmful Substances Required	: Not applicable
Permission for Manufacture Hazardous Substances	: calcium dihydroxide (317)
Subject to Labeling	Crystalline Silica (16502)
Requirements Law Article 57	
(Ministerial Order Article 30	
Appended Table 2) Hazardous Substances	: calcium dihydroxide (317)
Subject to Labeling	Crystalline Silica (16502)
Requirements Law Article 57	
(Ministerial Order Article 30	
Appended Table 2) Ordinance on Prevention of	: Not applicable
Organic Solvent Poisoning	
Ordinance on Prevention of	: Not applicable
Lead Poisoning Harmful Substances	: Not applicable
Prohibited from Manufacture	
Ordinance on Prevention of Hazards Due to Specified Chemical Substances	: Not applicable
Ordinance on Prevention of Tetraalkyl Lead Poisoning	: Not applicable
	: Not applicable
	: Not applicable
Substances Prevented From	: Not applicable
Impairment of Health	Listed
Chemical Substance Control	Law
	: Not applicable for Specified Chemical Substance, Monitoring
	Chemical Substance and Priority Assessment Chemical Substance.
	Release Amounts of Specific Chemical Substances in the of Improvements to the Management Thereof
	: Not applicable
Other regulations	
Salor regulations	

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Fire Service Law	: Not applicable to dangerous materials / designated flammables.			
High Pressure Gas Safety Act	: Not applicable			
Explosive Control Law	: Not applicable			
Vessel Safety Law	: Not regulated as a dangerous good			
Aviation Law	: Not regulated as a dangerous good			
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada NDSL Australia AIIC Japan ENCS New Zealand NZIoC Philippines PICCS Taiwan TCSI Korea KECI	 A substance or substances in this product is not registered or notified to be registered. Importation or manufacture of this product is still permitted provided that it does not exceed the REACH minimum threshold quantity of the non-regulated substances. Not in compliance with the inventory On or in compliance with the active portion of the TSCA inventory This product contains one or several components listed in the Canadian NDSL. 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 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 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 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 Chem 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 or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s). 			
China IECSC	: On the inventory, or in compliance with the inventory			
SECTION 16: Other information				
Further information				
Legacy SDS Number :	59340			
Significant changes since the las previous versions.	st version are highlighted in the margin. This version replaces all			
The information in this SDS pert	The information in this SDS pertains only to the product as shipped.			
information and belief at the date guidance for safe handling, use, not to be considered a warranty	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 I may not be valid for such material used in combination with any s, unless specified in the text.			
SDS Number:100000014321	11/12			

Diaseal M® Lost Circulation Material

Version 1.2

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ł	Key or legend to abbreviations and a	cronyms used	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational 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%	ATE	Acute toxicity estimate