

# EXP-S192-10

Version 2.2 Revision Date 2016-05-26

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product information**

Product Name : EXP-S192-10 Material : 1109274

**Company** : Chevron Phillips Chemical Company LP

**Drilling Specialties Company LLC** 

10001 Six Pines Drive The Woodlands, TX 77380

# **Emergency telephone:**

Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: +800 CHEMCALL (+800 2436 2255) China: +86-21-22157316 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group

E-mail address : SDS@CPChem.com Website : www.CPChem.com

#### **SECTION 2: Hazards identification**

# Classification of the substance or mixture

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

#### **Emergency Overview**

Warning

Form: Granular Physical state: Solid Color: White Odor: Odorless

OSHA Hazards : Combustible dust

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Classification

: Combustible dust

Labeling

Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.

**Potential Health Effects** 

Physical Hazards : Mechanical processing may form combustible dust

concentrations in air and thermal processing at elevated temperatures may generate simple hydrocarbons and carbon

oxides.

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcinogen

by ACGIH.

# **SECTION 3: Composition/information on ingredients**

Component	CAS-No.	Weight %	
Diallyldimethylammonium Chloride	26062-79-3	85 - 100	
Homopolymer			

#### **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 : If unconscious place in recovery position and seek medical

advice. If symptoms persist, call a physician.

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 : Keep respiratory tract clear. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

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#### **SECTION 5: Firefighting measures**

Flash point : Not applicable

Autoignition temperature : No data available

Unsuitable extinguishing

media

: High volume water jet.

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water courses. Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of

dust, e.g. on floors and ledges.

Special protective

equipment for fire-fighters

: 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

protection

: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard. Provide appropriate exhaust

ventilation at places where dust is formed.

Hazardous decomposition

products

: No data available.

#### **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

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

Methods for cleaning up : Pick up and arrange disposal without creating dust. Clean up

promptly by sweeping or vacuum. Keep in suitable, closed

containers for disposal.

Additional advice : Dust deposits should not be allowed to accumulate on

surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with

compressed air).

#### **SECTION 7: Handling and storage**

# Handling

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Advice on safe handling

Avoid formation of respirable particles. Do not breathe vapors/dust. 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.

Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by

themselves be sufficient.

Advice on protection against fire and explosion

: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

# **SECTION 8: Exposure controls/personal protection**

#### **Engineering measures**

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 may occur, such as:. Air-Purifying Respirator for Dusts and Mists / P100. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, 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 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.

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Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

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.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9: Physical and chemical properties**

# Information on basic physical and chemical properties

**Appearance** 

Form : Granular
Physical state : Solid
Color : White
Odor : Odorless

Odor Threshold : No data available

Safety data

Flash point : Not applicable

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Oxidizing properties : no

Autoignition temperature : No data available

Thermal decomposition : No data available

Molecular weight : Not applicable

pH : 4-6

Freezing point : Not applicable

Pour point Not applicable

Boiling point/boiling range : Not applicable

Vapor pressure : Not applicable

Relative density : No data available

Density : Not applicable

Water solubility : Soluble

Partition coefficient: n-

octanol/water

: No data available

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Viscosity, kinematic : Not applicable

Relative vapor density : Not applicable

Evaporation rate : No data available

Dust deflagration index Kst : > 0.0 m.b\_/s

# **SECTION 10: Stability and reactivity**

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

#### Possibility of hazardous reactions

Conditions to avoid : No data available.

Thermal decomposition : No data available

Hazardous decomposition

products

: No data available

Other data : No decomposition if stored and applied as directed.

# **SECTION 11: Toxicological information**

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**Skin irritation** : No adverse effects expected.

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**Eye irritation** : Product dust may be irritating to eyes, skin and respiratory

system.

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**Further information** : No data available.

# **SECTION 12: Ecological information**

#### Toxicity to fish

Diallyldimethylammonium Chloride Homopolymer : LC50: > 0.07 mg/l Exposure time: 96 h

Species: Scophthalmus maximus (Flatfish, Flounder)

static test

# Toxicity to daphnia and other aquatic invertebrates

Diallyldimethylammonium Chloride Homopolymer

: LC50: 1,475.78 mg/l Exposure time: 48 h

Species: Acartia tonsa (Marine Copepod)

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#### Toxicity to algae

Diallyldimethylammonium Chloride Homopolymer : EC50: 0.07 mg/l Exposure time: 72 h

Species: Skeletonema costatum (Marine Algae)

Growth inhibition

Biodegradability

Diallyldimethylammonium Chloride Homopolymer **Ecotoxicology Assessment**  : This material is not expected to be readily biodegradable.

Acute aquatic toxicity

Diallyldimethylammonium Chloride Homopolymer : Very toxic to aquatic life.

Chronic aquatic toxicity
Diallyldimethylammonium
Chloride Homopolymer

n

: Very toxic to aquatic life with long lasting effects.

Additional ecological

information

: Very toxic to aquatic life with long lasting effects.

# **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 : The product should not be allowed to enter drains, water

courses or the soil. 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.

#### **US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR

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TRANSPORTATION BY THIS AGENCY.

#### IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (DIALLYLDIMETHYLAMMONIUM CHLORIDE HOMOPOLYMER), 9, III, MARINE POLLUTANT, (DIALLYLDIMETHYLAMMONIUM CHLORIDE HOMOPOLYMER)

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (DIALLYLDIMETHYLAMMONIUM CHLORIDE HOMOPOLYMER), 9, III UN Special Provision 375 specifies that shipments of environmentally hazardous substances having a net mass of 5 L for liquids or 5 kg for solids that are properly packed in good quality packaging are not subject to the IATA regulations.

#### ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (DIALLYLDIMETHYLAMMONIUM CHLORIDE HOMOPOLYMER), 9, III, (E)

# RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (DIALLYLDIMETHYLAMMONIUM CHLORIDE HOMOPOLYMER), 9, III

# ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (DIALLYLDIMETHYLAMMONIUM CHLORIDE HOMOPOLYMER), 9, III

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

#### **SECTION 15: Regulatory information**

**National legislation** 

SARA 311/312 Hazards : Fire Hazard

#### **EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW**

CERCLA Reportable

: This material does not contain any components with a CERCLA

Quantity

RQ.

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

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SARA 302 Threshold Planning Quantity

: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

SARA 313 Ingredients : 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

Ozone-Depletion

Potential

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

California Prop. 65

Ingredients

: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive

defects.

#### **Notification status**

Europe REACH This mixture contains only ingredients which have been

registered according to Regulation (EU) No. 1907/2006

(REACH).

United States of America TSCA On TSCA Inventory

Canada DSL All components of this product are on the Canadian

DSL

Australia AICS On the inventory, or in compliance with the inventory

This substance may be used as a single component New Zealand NZIoC

chemical under an appropriate group standard

Notification number: HSR002644

On the inventory, or in compliance with the inventory Japan ENCS Korea KECI On the inventory, or in compliance with the inventory Philippines PICCS On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory

China IECSC

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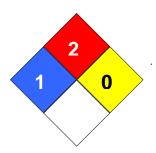
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# **SECTION 16: Other information**

NFPA Classification : Health Hazard: 1

Fire Hazard: 2 Reactivity Hazard: 0



#### **Further information**

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

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

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.

Key or legend to abbreviations and acronyms used in the safety data sheet					
ACGIH	American Conference of	LD50	Lethal Dose 50%		
	Government Industrial Hygienists				
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect		
	Substances		Level		
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency		
	List				
NDSL	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	OSHA	Occupational Safety & Health		
	Scenario Tool		Administration		
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit		
	Chemicals Association				
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of		
	Chemical Substances		Commercial Chemical Substances		
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic		
	Values				
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	TLV	Threshold Limit Value		
	on Cancer				
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average		
	Substances in China				
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act		
	New Chemical Substances				

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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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