SAFETY DATA SHEET



Formula F Concentrate

Version 1.11

Draduat information		
Product information		
Product Name Material	: Formula F Concentrate : 1107907, 1095337	
Use	: Intermediate	
Company	 Chevron Phillips Chemical Company LP Drilling Specialties Company LLC 10001 Six Pines Drive The Woodlands, TX 77380 	
Emergency telephone	::	
Asia: CHEMWATCH Mexico CHEMTREC South America SOS Argentina: +(54)-119 EUROPE: BIG +32. Austria: VIZ +43 1 4 Belgium: 070 245 24 Bulgaria: +359 2 919 Croatia: +3851 2348 Cyprus: 1401 Czech Republic: Tot Denmark: Danish Pe Estonia: BIG +32.14 Finland: 0800 147 1 France: ORFILA nut Germany: BIG +32.14 Finland: 543 2222 (2 Ireland: 543 2222 (2 Ireland: BIG +32.14. Italy: BIG +32.14.58 Latvia: State Fire an	 24.9300 or 703.527.3887(int'l) 1 (+612 9186 1132) China: 0532 8388 9090 C 01-800-681-9531 (24 hours) C otec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3 59839431 14.584545 (phone) or +32.14583516 (telefax) 06 43 43 (24 hours/day, 7 days/week) 45 (24 hours/day, 7 days/week) 54 233 3 342 (24 hours/day, 7 days/week) xicological Information Center +420 224 919 293, +420 224 9 bison Center (Giftlinjen): +45 8212 1212 584545 (phone) or +32.14583516 (telefax) 11 09 471 977 (24 hours/day) mber (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 14.584545 (phone) or +32.14583516 (telefax) 7793777 (24 hours/day, 7 days/week) 199 (24 hours/day, 7 days/week) 24 hours/day, 7 days/week) 584545 (phone) or +32.14583516 (telefax) 4545 (phone) or +32.14583516 (telefax) 14.584545 (phone) or +32.14583516 (telefax) 7793777 (24 hours/day, 7 days/week) 24 hours/day, 7 days/week) 2584545 (phone) or +32.14583516 (telefax) 4545 (phone) or +32.14583516 (telefax) 	915 402 veek) sis Clinic

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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
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 GHS Classification and labelling according to JIS Z 7252-2019 and JIS Z 7253-2019 (GHS 2015)

Classification

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

Labeling

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

SECTION 3: Composition/information on ingredients

Synonyms	:	Drilling Mud Additive
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Molecular formula : Mixture

SECTION 4: First aid measures

General	advice	:	No hazards which require special first aid measures.
If inhale	d	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case	of skin contact	:	If on skin, rinse well with water. If on clothes, remove clothes.
In case	of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallo	wed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
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TION 5: Firefighting measu	ires	
Flash point	:	>98°C (>208°F)
Autoignition temperature	:	No data available
Suitable extinguishing media	:	Carbon dioxide (CO2).
Unsuitable extinguishing media	:	High volume water jet.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Fire and explosion protection	:	Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
TION 6: Accidental release	me	asures
Environmental precautions	:	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	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.
TION 7: Handling and stora	age	
Handling		
Advice on safe handling	:	Avoid formation of aerosol. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
Storage		
Desuiremente for storers	:	No smoking. Keep in a well-ventilated place. Observe label precautions. Electrical installations / working materials must
Requirements for storage areas and containers		comply with the technological safety standards.

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Use

: Intermediate

SECTION 8: Exposure controls/personal protection

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 Organic Vapors, Dusts and Mists. 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 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. Tightly fitting safety goggles.
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:. Flame retardant protective clothing. Footwear protecting against chemicals.
Hygiene measures	:	Wash hands before breaks and at the end of workday.
SECTION 9: Physical and chemi	ica	I properties
Information on basic physi	cal	and chemical properties
Appearance		
Physical state		: liquid

Physical state Color : liquid: Colorless: Slight hydrocarbon

Safety data

Odor

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Flash point	: >98°C (>208°F)
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: no
Autoignition temperature	: No data available
Molecular formula	: Mixture
Molecular weight	: Not applicable
рН	: Not applicable
Boiling point/boiling range	: No data available
Vapor pressure	: No data available
Relative density	: 0.78 at 15.6 °C (60.1 °F)
Water solubility	: Insoluble
Viscosity, kinematic	: 60000 cSt at 25°C (77°F)
Relative vapor density	: No data available
Evaporation rate	: No data available
TION 10: Stability and react	livity
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 re	actions
Hazardous reactions	: Further information: No decomposition if stored and applied a directed.
	Hazardous reactions: Vapors may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: No data available.

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Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological inform	nation
Formula F Concentrate Aspiration toxicity	: No aspiration toxicity classification.
Formula F Concentrate Further information	: Solvents may degrease the skin.
SECTION 12: Ecological informat	lion
Ecotoxicity effects	
Elimination information (persis	tence and degradability)
Mobility	: No data available
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 considera	tions
The information in this SDS pe	ertains only to the product as shipped.
may meet the criteria of a haze other State and local regulation regulated components may be	urpose or recycle if possible. This material, if it must be discarded, ardous waste as defined by US EPA under RCRA (40 CFR 261) or ns. Measurement of certain physical properties and analysis for necessary to make a correct determination. If this material is te, federal law requires disposal at a licensed hazardous waste
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. Do not burn, or use a cutting torch on, the empty drum.
SECTION 14: Transport informati	ion
	hown here are for bulk shipments only, and may not apply to ages (see regulatory definition).
Goods Regulations for addition	stic or international mode-specific and quantity-specific Dangerous nal shipping description requirements (e.g., technical name or names,
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	nown here, may not always agree with the bill of lading shipping points for the material may vary slightly between the SDS and th
	ARTMENT OF TRANSPORTATION) ARDOUS MATERIAL OR DANGEROUS GOODS FOR AGENCY.
	IARITIME DANGEROUS GOODS) ARDOUS MATERIAL OR DANGEROUS GOODS FOR AGENCY.
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OF DANGEROUS GOODS BY IN	ARDOUS MATERIAL OR DANGEROUS GOODS FOR
Maritime transport in bulk acco	-
	-
CTION 15: Regulatory information	
National legislation	
National legislation	
National legislation	stances Control Law Not applicable
National legislation Poisonous and Deleterious Sub :	stances Control Law Not applicable

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(Dangerous	Substances)
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Harmful Substances Required	: Not applicable
Permission for Manufacture Hazardous Substances Subject to Labeling	: Not applicable
Requirements 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	: Not applicable
Chemical Substances Ordinance on Prevention of	: Not applicable
Tetraalkyl Lead Poisoning	: Not applicable
	: Not applicable
Substances Prevented From Impairment of Health	: Not applicable 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
	Chemical Substance and Priority Assessment Chemical Substance.
	Chemical Substance and Priority Assessment Chemical Substance. Release Amounts of Specific Chemical Substances in the of Improvements to the Management Thereof
Environment and Promotion	Chemical Substance and Priority Assessment Chemical Substance. Release Amounts of Specific Chemical Substances in the of Improvements to the Management Thereof
Environment and Promotion Other regulations	Chemical Substance and Priority Assessment Chemical Substance. Release Amounts of Specific Chemical Substances in the of Improvements to the Management Thereof : Not applicable : Flammable liquids Type 3 petroleums
Environment and Promotion Other regulations Fire Service Law	Chemical Substance and Priority Assessment Chemical Substance. Release Amounts of Specific Chemical Substances in the of Improvements to the Management Thereof : Not applicable : Flammable liquids Type 3 petroleums Hazardous rank III
Environment and Promotion Other regulations Fire Service Law High Pressure Gas Safety Act	Chemical Substance and Priority Assessment Chemical Substance. Release Amounts of Specific Chemical Substances in the of Improvements to the Management Thereof : Not applicable : Flammable liquids Type 3 petroleums Hazardous rank III : Not applicable
Environment and Promotion Other regulations Fire Service Law High Pressure Gas Safety Act Explosive Control Law	Chemical Substance and Priority Assessment Chemical Substance. Release Amounts of Specific Chemical Substances in the of Improvements to the Management Thereof : Not applicable : Flammable liquids Type 3 petroleums Hazardous rank III : Not applicable : Not applicable
Environment and Promotion Other regulations Fire Service Law High Pressure Gas Safety Act Explosive Control Law Vessel Safety Law	Chemical Substance and Priority Assessment Chemical Substance. Release Amounts of Specific Chemical Substances in the of Improvements to the Management Thereof : Not applicable : Not applicable : Not applicable : Not applicable : Not applicable : Not regulated as a dangerous good : Not regulated as a dangerous good : Not regulated as a dangerous good

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TSCA						
Canada DSL	: All components of this product are on the Canadian DSL					
Other AICS	: On the inventory, or in compliance with the inventory					
New Zealand NZIoC	: Not in compliance with the inventory					
Japan ENCS	: Not in compliance with the inventory					
Korea KECI	: On the inventory, or in compliance with the inventory					
Philippines PICCS	: On the inventory, or in compliance with the inventory					
China IECSC	: On the inventory, or in compliance with the inventory					
Taiwan TCSI	: On the inventory, or in compliance with the inventory					

SECTION 16: Other information

Further information

Legacy SDS Number

: CPC00406

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.

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effe
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agence
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupation 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 Concentra
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 Substar
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov
>=	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
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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

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