

A Schlumberger Company

# Safety Data Sheet SAFE-FLOC<sup>†</sup> I

1. Identification			
1.1 Product identifier			
Product name	SAFE-FLOC <sup>†</sup> I		
Product code	10277		
1.2 Relevant identified uses of the s	substance or mixture and uses advised against		
Recommended Use	Completion fluid additive.		
Uses advised against	Consumer use		
1.3 Details of the supplier of the saf	ety data sheet		
Supplier M-I L.L.C.			
P.O.Box 42842 Houston, TX 77242 www.miswaco.slb.com Telephone: 1 281-561-1511			

Prepared by Global Regulatory Compliance - Chemicals (GRC - Chemicals) , Mike McDowell

#### 1.4 Emergency Telephone Number

**Emergency telephone** (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 561 1600

# 2. Hazards identification

#### 2.1 Classification of the substance or mixture

# **GHS - Classification**

Health hazards	
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

### Environmental hazards

Chronic aquatic toxicity Category 3

**Physical Hazards** 

Not classified



## 2.2 Label elements



DANGER

#### Hazard statements

H314 - Causes severe skin burns and eye damage H412 - Harmful to aquatic life with long lasting effects

#### Precautionary statements

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/ physician

P501 - Dispose of contents/container in accordance with local regulations.

#### Supplementary precautionary statements

P264 - Wash face, hands and any exposed skin thoroughly after handling

P273 - Avoid release to the environment

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P363 - Wash contaminated clothing before reuse

Unknown acute toxicity

16.88% of the mixture consists of ingredient(s) of unknown toxicity.

# 3. Composition/information on Ingredients

#### 3.1 Substances

Not Applicable

#### 3.2 Mixtures

Component	CAS-No	Weight % - range
Phosphate ester	Proprietary	10 - 30
2-Ethylhexanol	104-76-7	10 - 30
Nonylphenol, ethoxylated	9016-45-9	10 - 30
Diethylene glycol monoethyl ether	111-90-0	5 - 10

#### Comments

The product contains other ingredients which do not contribute to the overall classification.

# 4. First aid measures



#### 4.1 First-Aid Measures

InhalationKeep at rest. Move the exposed person to fresh air at once. If breathing is difficult, (trained personnel should) give oxygen. Seek medical attention at once.IngestionDo NOT induce voniting. Rinse mouth. Risk of product entering the lungs on voniting after ingestion. Never give anything by mouth to an unconscious person. Immediate medical attention is required.Skin contactPromptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Burns: Flush with water immediately. While ingusing. remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Chemical burns must be treated by a physician.Eye contactRemove contact lenses. Immediately flush eyes with water for 15 minutes while holding eyelids open. Seek medical attention.6.2. Most important symptomsSeek medical attention for all burns, regardless how minor they may seem. The severity of the symptoms described will vary dependant of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to hospital as soon as possible.Main symptomsPlease see Section 11. Toxicological Information for further information.IngestionPlease see Section 11. Toxicological Information for further information.Fye contactPlease see Section 11. Toxicological Information for further information.Indication of any immediatePlease see Section 11. Toxicological Information for further information.Fye contactPlease see Section 11. Toxicological Information for further information.Fye contactPlease see Section 11. Toxicological Information for further information.		
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# 5. Fire-fighting measures

# 5.1 Extinguishing media

#### Suitable extinguishing media

Use extinguishing media appropriate for surrounding material.

Extinguishing media which shall not be used for safety reasons None known.

# 5.2 Special hazards arising from the substance or mixture

#### Unusual fire and explosion hazards None known.

# Hazardous combustion products



## 5.3 Advice for firefighters

#### Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

### **Special Fire-Fighting Procedures**

Containers close to fire should be removed immediately or cooled with water.

### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not get on skin or clothing. Wash thoroughly after handling. Do not breathe vapors or spray mist. Prevent further leakage or spillage if safe to do so.

#### 6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

#### Environmental exposure controls

Avoid release to the environment.

#### 6.3 Methods and materials for containment and cleaning up

#### Methods for containment

Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

#### Methods for cleaning up

Contain and collect spillage 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).

#### 6.4 Reference to other sections

See section 13 for more information.

# 7. Handling and storage

#### 7.1 Precautions for safe handling

#### Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Avoid spills and splashing during use. Do not breathe vapors or spray mist.

#### 7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions	Ensure adequate ventilation. Keep airborne concentrations below exposure limits.
Storage precautions	Keep containers tightly closed in a dry, cool and well-ventilated place.

# 8. Exposure controls/personal protection

### 8.1 Control parameters



Component	ACGIH TLV	OSHA PEL
Phosphate ester	Not Determined	Not Determined
2-Ethylhexanol	Not Determined	Not Determined
Nonylphenol, ethoxylated	Not Determined	Not Determined
Diethylene glycol monoethyl ether	Not Determined	Not Determined

#### 8.2 Exposure controls

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

#### Engineering measures to reduce exposure

Ensure adequate ventilation.

Personal protective equipment Eye protection Hand protection	Tightly fitting safety goggles. Face-shield. Wear chemical resistant gloves such as nitrile or neoprene, Be aware that liquid may penetrate the gloves. Frequent change is advisable.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations, At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used.
Skin and body protection	Wear suitable protective clothing, Eye wash and emergency shower must be available at the work place.
Hygiene measures	Wash hands before eating, drinking or smoking, Remove and wash contaminated clothing before re-use.

# 9. Physical and chemical properties

9.1 Information on basic physica	l and chemical properties	
Physical state	Liquid	
Appearance	Opaque	
Color	Colorless	
Odor	Sweet	
Odor threshold	Not applicable	
<u>Property</u>	Values_	Remarks
рН	1.98	
pH @ dilution		
Melting/freezing point		
Boiling point/range	> 176 °C / 350 °F	
Flash point	> 93.3 °C / > 200 °F	PMCC
Evaporation rate (BuAc =1)	No information available	
Flammability (solid, gas)	Not Applicable	
Flammability Limits in Air		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	1.014	
Bulk density	No information available	
Water solubility	Dispersible	





Solubility in other solvents Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Log Pow Explosive properties	No information available Not Applicable No information available No information available No information available No information available Not Applicable
Oxidizing properties	None known.
9.2 Other information Pour point Molecular weight VOC content(%) Density	No information available No information available None No information available

# 10. Stability and reactivity

#### 10.1 Reactivity

No specific reactivity hazards associated with this product.

#### 10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

#### 10.3 Possibility of Hazardous Reactions

#### Hazardous polymerization

Hazardous polymerization does not occur.

#### 10.4 Conditions to avoid

Check for additional information in sect. 7.

#### 10.5 Incompatible materials

Strong oxidizing agents. Strong bases.

#### 10.6 Hazardous decomposition products

Carbon oxides (COx).

# **11. Toxicological information**

#### 11.1 Information on toxicological effects

Acute toxicity Inhalation	Causes burns. Inhaled corrosive substances can lead to a toxic edema of the lungs.
Eye contact	Causes burns. May cause irreversible damage to eyes.
Skin contact	Causes burns.
Ingestion	Causes burns.





Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphate ester	No data available	No data available	No data available
2-Ethylhexanol	1516 - 2774 mg/kg ( Rat )	No data available	= 0.237 mg/L ( Rat ) 4 h
Nonylphenol, ethoxylated	= 1310 mg/kg ( Rat )	= 2 mL/kg ( Rabbit )	No data available
Diethylene glycol monoethyl ether	= 1920 mg/kg ( Rat )	= 4200 µL/kg ( Rabbit ) = 6	> 5240 mg/m <sup>3</sup> (Rat) 4 h
		mL/kg (Rat)	

Component	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA listed carcinogens	NTP
Phosphate ester	No data available	No data available	No data available	No data available
2-Ethylhexanol	No data available	No data available	No data available	No data available
Nonylphenol, ethoxylated	No data available	No data available	No data available	No data available
Diethylene alvcol monoethyl ether	No data available	No data available	No data available	No data available

Sensitization	This product does not contain any components suspected to be sensitizing.
Mutagenic effects	This substance has no evidence of mutagenic properties.
Carcinogenicity	This substance has no evidence of carcinogenic properties.
Reproductive toxicity	None known.
Developmental toxicity	Not known to cause birth defects or have a deleterious effect on a developing fetus.
Routes of exposure	Skin contact. Inhalation. Eye contact.
Routes of entry	Skin contact. Inhalation.
Specific target organ toxicity	Not classified
(single exposure) Specific target organ toxicity (repeated exposure)	Not classified.
Neurological effects	None known.
Target organ effects	None known.
Aspiration hazard	Not Applicable.

# 12. Ecological information

# 12.1 Toxicity

**Toxicity to algae** See component information below.

#### **Toxicity to fish** See component information below.

# Toxicity to daphnia and other aquatic invertebrates

See component information below.

Component	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Phosphate ester (10 - 30)	No information available	No information available	No information available





			[
2-Ethylhexanol	0 ( 1	11.5 mg/L EC50 (Desmodesmus	
104-76-7(10 - 30)	promelas) = 96 h	subspicatus) = 72 h	= 48 h
	29.7 mg/L LC50 (Pimephales	2.7 mg/L EC50	320 mg/L EC50 (Daphnia magna)
	promelas) = 96 h	(Pseudokirchneriella subcapitata)	
	10.0 - 33.0 mg/L LC50 (Lepomis	= 96 h	4.78 - 8.87 mg/L EC50 (Daphnia
	macrochirus) = 96 h	8.5 mg/L EC50 (Scenedesmus	magna) = 48 h
	32 - 37 mg/L LC50	quadricauda) = 168 h	8.5 mg/L EC50 (Daphnia magna)
	(Oncorhynchus mykiss) = 96 h		= 48 h
	7.5 mg/L LC50 (Oncorhynchus		31.8 mg/L EC50 (Daphnia
	mykiss) = 96 h		magna) = 48 h
	5000 mg/L LC50 (Leuciscus idus)		
	= 48 h		
	3.6 - 5.1 mg/L LC50 (Lepomis		
	macrochirus) = 96 h		
	4.78 - 8.85 mg/L LC50		
	(Oncorhynchus mykiss) = 96 h		
	0.056 - 7.5 mg/L LC50		
	(Oncorhynchus mykiss) = 96 h		
	28.7 mg/L LC50 (Lepomis		
	macrochirus) = 96 h		
Nonylphenol, ethoxylated 9016-45-9 (10 - 30)	No information available	No information available	No information available
Diethylene glycol monoethyl ether	11400 - 15700 mg/L LC50	No information available	3940 - 4670 mg/L EC50 (Daphnia
111-90-0 (5 - 10)	(Oncorhynchus mykiss) = 96 h		magna) = 48 h
	13400 mg/L LC50 (Salmo		magna) = 40 m
	gairdneri) = 96 h		
	11600 - 16700 mg/L LC50		
	(Pimephales promelas) = 96 h		
	10000 mg/L LC50 (Lepomis		
	macrochirus) = 96 h		
	19100 - 23900 mg/L LC50		
	(Lepomis macrochirus) = 96 h		

### 12.2 Persistence and degradability

No product level data available.

#### 12.3 Bioaccumulative potential

No data available.

#### 12.4 Mobility in soil

No information available.

# 12.5 Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT) This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

### 12.6 Other adverse effects.

None known.

# 13. Disposal considerations

### 13.1 Waste treatment methods



**Disposal Method** 

Disposal should be made in accordance with federal, state and local regulations.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

# 14. Transport information

#### 14.1 UN Number

UN No. (DOT)	UN1760
UN No. (TDG)	Not regulated
UN/ID No. (ADR/RID/ADN/ADG)	UN1760
UN No. (IMDG)	UN1760
UN No. (ICAO)	UN1760

<u>14.2 Proper shipping name</u> CORROSIVE LIQUID, N.O.S. (Contains Phosphate Ester)

<u>14.3 Hazard class(es)</u>	
DOT Hazard class	8
TDG Hazard class	Not regulated
ADR/RID/ADN/ADG Hazard class	8
IMDG Hazard class	8
ICAO Hazard class/division	8
14.4 Packing group	
DOT Packing group	111
TDC Backing group	Not regulated

DOT Facking group	111
TDG Packing group	Not regulated
ADR/RID/ADN/ADG Packing group	III
IMDG Packing group	111
ICAO Packing group	111



14.5 Environmental hazard No Marine pollutant

No

14.6 Special precautions Not Applicable

# 15. Regulatory information

#### International inventories

USA (TSCA)

Complies



Canada (DSL) European Union (EINECS and ELINCS) Philippines (PICCS) Japan (ENCS) China (IECSC) Australia (AICS) Korean (KECL) New Zealand (NZIoC) Complies Does not Comply Complies Complies Complies Complies Complies Complies

### U.S. Federal and State Regulations

#### SARA 311/312 Hazard Categories

Immediate (acute) health hazard.

Component	SARA 302 / TPQs	SARA 313	CERCLA RQ
Phosphate ester	N/A	N/A	N/A
2-Ethylhexanol	N/A	N/A	N/A
Nonylphenol, ethoxylated	N/A	N/A	N/A
Diethylene glycol monoethyl ether	N/A	N/A	N/A

#### State Comments

Proposition 65: This product is not known to contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer and/or reproductive toxicity at levels that are expected to pose a significant risk under anticipated use conditions.

#### Canadian Classification

This product may not be distributed or used in Canada.

16. Other information		
Supersedes date	11/Sep/2007	
Revision date	10/Nov/2014	
Version	4	
The following sections have been revised	All sections. Updated according to GHS/CLP.	
HMIS classification		
Health Flammability Physical hazard PPE	3 0 0 X	
†A mark of M-I L.L.C.		



#### Disclaimer

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