

Revision date : 2023/03/13 Version: 1.1 Page: 1/14 (30735595/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

DisPlus 39L

Recommended use of the chemical and restriction on use

Recommended use*: Performance Chemicals for Oilfield Applications Recommended use*: for industrial use only

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

<u>Company:</u> BASF CORPORATION 100 Park Avenue Florham Park, NJ 07932, USA Global Oilfield Solutions

E-mail address: RegXcellenceOilfieldMining@basf.com

Emergency telephone number

24 Hour Emergency Response Information CHEMTREC: 1-800-424-9300 BASF HOTLINE: 1-800-832-HELP (4357)

 Other means of identification

 Chemical family:
 Preparation based on: anionic and non-ionic surfactants

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Acute Tox.	4 (oral)	Acute toxicity
Acute Tox.	4 (dermal)	Acute toxicity
Skin Corr./Irrit.	2	Skin corrosion/irritation

Revision date: 2023/03/13 Version: 1.1

Eye Dam./Irrit. Aquatic Acute Aquatic Chronic	1 2 3	Serious eye damage/eye irritation Hazardous to the aquatic environment - acute Hazardous to the aquatic environment - chronic
Label elements		
Pictogram:		
Signal Word: Danger		
Hazard Statement: H318 H315 H302 + H312 H412 H401	Causes serious eye damage Causes skin irritation. Harmful if swallowed or in co Harmful to aquatic life with lo Toxic to aquatic life.	e. ontact with skin ong lasting effects.
Precautionary Statemer P280	nts (Prevention): Wear protective gloves, prot protection.	ective clothing and eye protection or face
P273 P270 P264	Avoid release to the environ Do not eat, drink or smoke w Wash contaminated body pa	ment. vhen using this product. arts thoroughly after handling.
Precautionary Statemer P310 P305 + P351 + P338	nts (Response): Immediately call a POISON IF IN EYES: Rinse cautious contact lenses, if present an	CENTER or physician. y with water for several minutes. Remove d easy to do. Continue rinsing
P303 + P352 P361 + P364	IF ON SKIN (or hair): Wash Take off immediately all con reuse.	with plenty of soap and water. taminated clothing and wash it before
P330	Rinse mouth	
Precautionary Statemer P501	nts (Disposal): Dispose of contents/contain	er in accordance with local regulations.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Alcohols, C10-16, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO) CAS Number: 68585-34-2 Content (W/W): >= 25.0 - < 50.0% Synonym: No data available.

Revision date: 2023/03/13 Version: 1.1

Alcohols,	C13-15, branched and linear, ethoxylated
	CAS Number: 157627-86-6
	Content (W/W): >= 25.0 - < 50.0%
	Synonym: No data available.
2-butoxye	thanol
	CAS Number: 111-76-2
	Content (W/W): >= 20.0 - < 25.0%
	Synonym: 2-Butoxyethanol; Ethylene glycol monobutyl ether
(OLIGOM	ER) Alcohols, C10-16, ethoxylated (> 1 < 2.5 mol EO)
	CAS Number: 68002-97-1
	Content (W/W): >= 0.3 - < 3.0%
	Synonym: No data available.
Alcohols,	C10-16
	CAS Number: 67762-41-8

4. First-Aid Measures

Description of first aid measures

General advice:

Immediately remove contaminated clothing.

Content (W/W): >= 0.3 - < 1.0%Synonym: Alcohols, (C=10-16)

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Remove contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Seek medical attention. Consult a skin specialist.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth immediately with water. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting due to aspiration hazard. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Information on: Alcohols, C10-16, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO) Symptoms: Overexposure may cause:, Eye irritation, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Revision date: 2023/03/13 Version: 1.1

Information on: 2-butoxyethanol

Symptoms: Overexposure may cause:, skin irritation, irritation of respiratory tract, erythema, nausea, headache, vomiting, diarrhea, abdominal cramps, hemolysis, blood in urine, CNS depression

Hazards: No applicable information available.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote, administer corticosteroid dose aerosol to prevent pulmonary odema.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam

Special hazards arising from the substance or mixture

Hazards during fire-fighting: harmful vapours, carbon oxides Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required. Avoid contact with skin and eyes. Avoid inhalation. Ensure adequate ventilation.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. For large amounts: Pump off product.

Place absorbed material in the same container as the spilled substance/product for disposal.

Revision date: 2023/03/13 Version: 1.1

7. Handling and Storage

Precautions for safe handling

No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Remove contaminated clothing and protective equipment before entering eating areas.

Protection against fire and explosion: Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Segregate from strong acids. Segregate from strong bases.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

2-butoxyethanol	ACGIH, US:	TWA value 20 ppm ;
-	OSHA Z1:	PEL 50 ppm 240 mg/m3;
	OSHA Z1:	Skin Designation ; The substance can be
		absorbed through the skin.

Advice on system design:

No applicable information available.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Combination filter for gases/vapours of organic compounds and solid and liquid particles (f.e. EN 14387 Type A-P2)

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

Body protection:

Body protection must be chosen based on level of activity and exposure., Protective coverall and/or impermeable apron and boots as necessary.

General safety and hygiene measures:

Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form:	liquid
Odour:	No data available.
Odour threshold:	not determined

Revision date: 2023/03/13 Version: 1.1

Colour: pH value:	clear > 5.5 (100 %(m))	(DIN 19268)
freezing range: Melting temperature: boiling temperature:	not determined No applicable information available. 100 - 101 °C	(OECD Guideline
Sublimation point: Flash point: Flammability:	No applicable information available. 100 - 101 °C hardly combustible	(ISO 2719) (derived from flash
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C	point)
Upper explosion limit:	below the flash point. For liquids not relevant for	(DIN 51649-1)
Autoignition:	classification and labelling. 232 °C The product has not been tested. The statement has been derived from the	
Information on: 2-butoxyetha	properties of the individual components. <i>nol</i>	
Autoignition:	232 °C	(DIN EN 14522)
Vapour pressure: Density:	62.74 hPa (20 °C) 71.71 hPa (50 °C) 155.82 hPa (55 °C) 1.02 g/cm3	(OECD Guideline 104) (OECD Guideline 104) (OECD Guideline 104) (ISO 2811-3)
	(15 °C) 1.02 g/cm3 (20 °C) 1.00 g/cm3 (50 °C)	(ISO 2811-3)
Relative density:	No applicable information available.	
Vapour density:	not determined	
octanol/water (log Pow):		
Self-ignition	not self-igniting	
temperature:		
Viscosity, dynamic:	60 mPa.s (23 °C)	
Viscosity, kinematic:	approx. 59 mm2/s (23 °C)	(calculated (from dynamic viscosity))
Particle size:	The substance / product is marketed or used in a non solid or granular	uj
Solubility in water:	soluble	
Solubility (quantitative): Solubility (qualitative):	No applicable information available. soluble solvent(s): alcohols,	

Revision date: 2023/03/13 Version: 1.1

Molar mass: Evaporation rate: No applicable information available. not determined

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

Oxidizing properties: not fire-propagating

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions. The product is chemically stable.

Conditions to avoid

Avoid open flames.

Incompatible materials

strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products

Decomposition products: Hazardous decomposition products: No hazardous decomposition products known.

Thermal decomposition: not determined

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after short-term skin contact. Of moderate toxicity after single ingestion.

Information on: 2-butoxyethanol

Assessment of acute toxicity:Of moderate toxicity after single ingestion. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard. The European Union (EU) has classified this substance as 'harmful' after inhalation. Virtually nontoxic after a single skin contact.

Revision date: 2023/03/13 Version: 1.1

<u>Oral</u>

Type of value: ATE Value: > 300 - < 2,000 mg/kg (calculated)

Information on: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO) Type of value: LD50 Species: rat (male/female) Value: > 2,000 mg/kg (BASF-Test) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Type of value: LD50 Species: rat (male/female) Value: > 2,000 mg/kg (BASF-Test) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Alcohols, C13-15, branched and linear, ethoxylated Type of value: LD50 Species: rat Value: > 300 - 2,000 mg/kg (OECD Guideline 401) Literature data.

Information on: 2-butoxyethanol Type of value: LD50 Species: guinea pig Value: 1,200 mg/kg (similar to OECD guideline 401)

Inhalation Type of value: ATE Value: 50 mg/l

<u>Dermal</u> Type of value: ATE Value: 2,000 mg/kg

Information on: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO) Type of value: LD50 Species: rat Value: 2,000 mg/kg (OECD Guideline 402)

Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Irritation / corrosion Assessment of irritating effects: Skin contact causes irritation. May cause severe damage to the eyes.

<u>Skin</u>

Revision date: 2023/03/13 Version: 1.1

Information on: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO) Species: In vitro assay Result: Irritant. Method: OECD Guideline 439

Species: rabbit Result: Irritant. Method: OECD Guideline 404

Information on: Alcohols, C13-15, branched and linear, ethoxylated Species: rabbit Result: non-irritant Literature data.

Information on: 2-butoxyethanol Species: rabbit Result: Irritant. Method: BASF-Test

Eye

Information on: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO) Species: In vitro assay Result: Non corrosive. Method: BCOP

Species: rabbit Result: Risk of serious damage to eyes. Method: OECD Guideline 405

Information on: Alcohols, C13-15, branched and linear, ethoxylated Species: rabbit Result: Risk of serious damage to eyes. Method: Draize test Literature data.

Information on: 2-butoxyethanol Species: rabbit Result: Irritant. Method: OECD Guideline 405

<u>Sensitization</u> Assessment of sensitization: Based on available data, the classification criteria are not met.

Aspiration Hazard No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Revision date: 2023/03/13 Version: 1.1

Genetic toxicity

Assessment of mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity: Based on available data, the classification criteria are not met.

Teratogenicity

Assessment of teratogenicity: Based on the ingredients, there is no suspicion of a teratogenic effect.

Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

12. Ecological Information

Toxicity

Aquatic toxicity Assessment of aquatic toxicity: Acutely toxic for aquatic organisms. Harmful to aquatic life with long lasting effects.

Toxicity to fish

Information on: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO) LC50 (96 h) 7.1 mg/l, Brachydanio rerio (OECD Guideline 203, Flow through.) The details of the toxic effect relate to the nominal concentration.

Information on: Alcohols, C13-15, branched and linear, ethoxylated LC50 (96 h) > 1 - 10 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, static) Literature data.

Aquatic invertebrates

Information on: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO) EC50 (48 h) 7.4 mg/l, Daphnia magna (OECD Guideline 202, part 1, static) The details of the toxic effect relate to the nominal concentration.

Information on: Alcohols, C13-15, branched and linear, ethoxylated EC50 (48 h) > 1 - 10 mg/l, Daphnia magna Literature data.

Aquatic plants

Information on: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO) No observed effect concentration (72 h) 0.95 mg/l (growth rate), Scenedesmus subspicatus (Algal growth inhibition test)

The statement of the toxic effect relates to the analytically determined concentration. EC50 (72 h) 27.7 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201) The statement of the toxic effect relates to the analytically determined concentration.

Revision date: 2023/03/13 Version: 1.1

Information on: Alcohols, C13-15, branched and linear, ethoxylated EC50 (72 h) > 1 - 10 mg/l (growth rate), Scenedesmus subspicatus (OECD Guideline 201, static) Literature data.

Chronic toxicity to fish

Information on: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO) No observed effect concentration (28 d) 0.14 mg/l, Oncorhynchus mykiss (OECD Guideline 204, Flow through.)

Chronic toxicity to aquatic invertebrates

Information on: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO) No observed effect concentration (21 d) 0.27 mg/l, Daphnia magna (OECD Guideline 211, other)

Information on: Alcohols, C13-15, branched and linear, ethoxylated No observed effect concentration > 0.1 - 1 mg/l, Daphnia magna Literature data.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Information on: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO)

Readily biodegradable (according to OECD criteria).

Information on: 2-butoxyethanol

Readily biodegradable (according to OECD criteria).

Bioaccumulative potential

Assessment bioaccumulation potential

Information on: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO)

Significant accumulation in organisms is not to be expected.

Information on: Alcohols, C13-15, branched and linear, ethoxylated

Accumulation in organisms is not to be expected.

Information on: 2-butoxyethanol

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Mobility in soil

Revision date: 2023/03/13 Version: 1.1

Assessment transport between environmental compartments

Information on: Alcohols, C12-14, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO)

The substance will not evaporate into the atmosphere from the water surface. Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads. Study scientifically not justified.

Information on: 2-butoxyethanol

The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is not expected.

Additional information

Other ecotoxicological advice: The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport USDOT	Not classified as a dangerous good under transport regulations
Sea transport IMDG	Not classified as a dangerous good under transport regulations
Air transport IATA/ICAO	Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:ChemicalTSCA, USreleased; restriction on use / listed

Revision date: 2023/03/13 Version: 1.1

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

EPCRA 313:

CAS NumberChemical name111-76-22-butoxyethanol

State regulations

State RTK	CAS Number	Chemical name
NJ	111-76-2	2-butoxyethanol
PA	111-76-2	2-butoxyethanol

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 3 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 3^m Flammability: 1 Physical hazard:0

16. Other Information

SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2023/03/13

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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Revision date: 2023/03/13 Version: 1.1

Page: 14/14 (30735595/SDS_GEN_US/EN)

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