HALLIBURTON

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

BARA-DEFOAM® W300

Revision Date: 08-Sep-2015 Revision Number: 35

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

1.1. Product Identifier

Product Name BARA-DEFOAM® W300

Internal ID Code HM003505

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Defoamer

Sector of use SU2 - Mining, (including offshore industries)

Product category PC20 - Products such as pH-regulators, flocculants, precipitants, neutralization agents,

other unspecific

Process categories PROC4 - Use in batch and other process (synthesis) where opportunity for exposure

arises

1.3. Details of the supplier of the safety data sheet

Halliburton Manufacturing Services, Ltd. Halliburton House, Howemoss Crescent

Kirkhill Industrial Estate

Dyce

Aberdeen, AB21 0GN United Kingdom

www.halliburton.com

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

1.4. Emergency telephone number +44 8 08 189 0979 / 1-760-476-3961

Emergency telephone - §45 - (EC)1272/2008			
Europe	112		
Croatia	Centar za kontrolu otrovanja (CKO): (+385 1) 23-48-342 (Poison Control Center (PCC) - Institute for Medical Research and Occupational Health)		
Cyprus	+210 7793777		
Denmark	Poison Control Hotline (DK): +45 82 12 12 12		
France	ORFILA (FR): + 01 45 42 59 59		
Germany	Poison Center Berlin (DE): +49 030 30686 790		
Italy	Poison Center, Milan (IT): +39 02 6610 1029		
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)		
Norway	Poisons Information (NO):+ 47 22 591300		
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97		
Romania	+40 21 318 36 06		
Spain	Poison Information Service (ES): +34 91 562 04 20		
United Kingdom	NHS Direct (UK): +44 0845 46 47		

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

DECIII	ATION	(EC) No	1272/2008
REGUL	A HON	(EC) NO	121212000

Serious Eye Damage / Eye Irritation	Category 1 - H318
Specific Target Organ Toxicity - (Single Exposure)	Category 3 - H336

2.2. Label Elements

Hazard Pictograms



Signal Word Danger

Hazard Statements

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear eye protection/face protection

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

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

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Contains

SubstancesCAS NumberHydrotreated light petroleum distillate64742-47-8Soybean oil, methyl ester, sulfated, sodium salt68918-47-8Sulfated oleic acid, potassium salt68473-93-8

2.3. Other Hazards

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

SECTION 3: Composition/information on Ingredients

3.2. Mixtures Mixture

Substances	EINECS	CAS	PERCENT	EU - CLP Substance	REACH No.
		Number	(w/w)	Classification	
Hydrotreated light petroleum distillate	265-149-8	64742-47-8	30 - 60%	Asp. Tox. 1 (H304)	01-2119484819-18
Soybean oil, methyl ester, sulfated, sodium salt	272-864-9	68918-47-8	10 - 30%	Eye Corr. 1 (H318)	No data available
Sulfated oleic acid, potassium salt	270-640-5	68473-93-8	1 - 5%	Eye Corr. 1 (H318)	No data available

For the full text of the H-phrases mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation If inhaled, move victim to fresh air and seek medical attention.

Eyes Immediately flush eyes with large amounts of water for at least 30 minutes.

Seek prompt medical attention.

Skin In case of contact, immediately flush skin with plenty of soap and water for at

least 15 minutes. Get medical attention. Remove contaminated clothing and

launder before reuse.

Ingestion Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical

attention.

4.2. Most Important symptoms and effects, both acute and delayed

Causes serious eye damage. May cause headache, dizziness, and other central nervous system effects.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

5.2. Special hazards arising from the substance or mixture

Special Exposure Hazards

Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce harmful gases. Runoff to sewer may cause fire or explosion hazard.

5.3. Advice for firefighters

Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Ensure adequate ventilation.

See Section 8 for additional information

6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

6.3. Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

6.4. Reference to other sections

See Section 8 and 13 for additional information.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling

Use appropriate protective equipment. Avoid contact with eyes, skin, or clothing. Ensure adequate ventilation. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Store away from oxidizers. Keep container closed when not in use. Product has a shelf life of 36 months.

7.3. Specific End Use(s)

Exposure Scenario No information available Other Guidelines No information available

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Exposure Limits

Substances	CAS Number	EU	UK	Netherlands	France
Hydrotreated light petroleum distillate	64742-47-8	Not applicable	Not applicable	Not applicable	Not applicable
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	Not applicable	Not applicable	Not applicable	Not applicable

Not applicable

Finland
ble Not applicable
ble Not applicable
ble Not applicable
al

Not applicable

Not applicable

Not applicable

Substances	CAS Number	Austria	Ireland	Switzerland	Norway
Hydrotreated light petroleum distillate	64742-47-8	Not applicable	Not applicable	Not applicable	Not applicable
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	Not applicable	Not applicable	Not applicable	Not applicable
Sulfated oleic acid, potassium salt	68473-93-8	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Italy	Poland	Hungary	Czech Republic
Hydrotreated light petroleum distillate	64742-47-8	Not applicable	Not applicable	Not applicable	Not applicable
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	Not applicable	Not applicable	Not applicable	Not applicable
Sulfated oleic acid, potassium salt	68473-93-8	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Denmark	Romania	Croatia	Cyprus
Hydrotreated light	64742-47-8	Not applicable	Not applicable	Not applicable	Not applicable
petroleum distillate					
Soybean oil, methyl ester,	68918-47-8	Not applicable	Not applicable	Not applicable	Not applicable
sulfated, sodium salt					
Sulfated oleic acid,	68473-93-8	Not applicable	Not applicable	Not applicable	Not applicable
potassium salt					

Derived No Effect Level (DNEL) Worker

No information available.

General Population

Sulfated oleic acid,

68473-93-8

Predicted No Effect Concentration (PNEC)

No information available.

8.2. Exposure controls

Engineering Controls

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

Personal protective equipment

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection

If engineering controls and work practices cannot keep exposure below occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional. Organic vapor respirator.

Hand Protection

Chemical-resistant protective gloves (EN 374) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Neoprene gloves. Butyl rubber gloves. (>= 0.65 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced. Manufacturer's directions for use should be observed because of great diversity of types.

Skin Protection Eye Protection

Rubber apron.

Chemical goggles; also wear a face shield if splashing hazard exists.

Other Precautions Eyewash fountains and safety showers must be easily accessible.

Environmental Exposure Controls Do not allow material to contaminate ground water system

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color: Clear amber

Odor: Mineral oil Odor Threshold: No information available

<u>Property</u> <u>Values</u>

Remarks/ - Method

pH: 5 - 8.5
Freezing Point/Range < < -17.8 °C
Melting Point/Range No data available
Boiling Point/Range No data available

Flash Point > 77 °C / > 170.6 °F PMCC

Flammability (solid, gas)

No data available

upper flammability limit 5% lower flammability limit 0.6%

Evaporation rateNo data availableVapor PressureNo data availableVapor DensityNo data available

Specific Gravity 0.872

Water Solubility Insoluble in water Solubility in other solvents No data available No data available Partition coefficient: n-octanol/water **Autoignition Temperature** No data available **Decomposition Temperature** No data available **Viscosity** No data available **Explosive Properties** No information available **Oxidizing Properties** No information available

9.2. Other information

VOC Content (%) No data available

SECTION 10: Stability and Reactivity

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical Stability

Stable

10.3. Possibility of Hazardous Reactions

Will Not Occur

10.4. Conditions to Avoid

Keep away from heat, sparks and flame.

10.5. Incompatible Materials

Strong oxidizers.

10.6. Hazardous Decomposition Products

Oxides of sulfur. Carbon monoxide and carbon dioxide. Hydrocarbons.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

Inhalation May cause mild respiratory irritation. May cause central nervous system depression

including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred

speech, giddiness and unconsciousness.

Eye Contact Causes serious eye damage.

Skin Contact May cause skin defatting with prolonged exposure. May cause mild skin irritation.

Ingestion May cause abdominal pain, vomiting, nausea, and diarrhea.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 0.1% are

chronic health hazards.

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrotreated light petroleum distillate	64742-47-8	> 5000 mg/kg (Rat) (similar substance)	> 2000 mg/kg (Rabbit) (similar substance)	> 5.28 mg/L (Rat) 4h (similar substance)
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	>2000 mg/kg (Rat) (similar substance)	>2000 mg/kg (Rat) (similar substance)	No data available
Sulfated oleic acid, potassium salt	68473-93-8	> 2000 mg/kg (Rat) (similar substance)	> 2000 mg/kg (Rat) (similar substance)	No data available

Substances	CAS Number	Skin corrosion/irritation
Hydrotreated light petroleum distillate	64742-47-8	Non-irritating to the skin (similar substances)
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	Non-irritating to the skin (similar substances)
Sulfated oleic acid, potassium salt	68473-93-8	Non-irritating to the skin (similar substances)

Substances	CAS Number	Eye damage/irritation
Hydrotreated light petroleum distillate	64742-47-8	Non-irritating to rabbit's eye
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	Eye, rabbit: Causes severe eye irritation which may damage tissue. (similar substances)
Sulfated oleic acid, potassium salt	68473-93-8	Causes severe eye irritation which may damage tissue. (Rabbit) (similar substances)

Substances	CAS Number	Skin Sensitization
Hydrotreated light petroleum distillate	64742-47-8	Did not cause sensitization on laboratory animals (guinea pig) (similar substances)
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	Did not cause sensitization on laboratory animals (guinea pig) (similar substances)
Sulfated oleic acid, potassium salt	68473-93-8	Did not cause sensitization on laboratory animals (guinea pig) (similar substances)

Substances	CAS Number	Respiratory Sensitization
Hydrotreated light petroleum distillate	64742-47-8	No information available
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	No information available
Sulfated oleic acid, potassium salt	68473-93-8	No information available

Substances	CAS Number	Mutagenic Effects
Hydrotreated light petroleum distillate		In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar substances)
Soybean oil, methyl ester, sulfated, sodium salt	1	In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar substances)
Sulfated oleic acid, potassium salt		In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar substances)

Substances	CAS Number	Carcinogenic Effects
Hydrotreated light petroleum distillate	64742-47-8	Did not show carcinogenic effects in animal experiments
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	No information available.
Sulfated oleic acid, potassium salt	68473-93-8	No information available.

Substances	CAS Number	Reproductive toxicity	
Hydrotreated light petroleum distillate		Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. (similar substances)	
Soybean oil, methyl ester, sulfated, sodium salt		Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. (similar substances)	
Sulfated oleic acid, potassium salt		Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. (similar substances)	

Substances	CAS Number	STOT - single exposure
Hydrotreated light petroleum distillate	64742-47-8	May cause disorder and damage to the Central Nervous System (CNS) (similar substances)
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Sulfated oleic acid, potassium salt	68473-93-8	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)

Substances	CAS	STOT - repeated exposure	
	Number	·	
Hydrotreated light petroleum distillate		No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)	
Soybean oil, methyl ester, sulfated, sodium salt		No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)	
Sulfated oleic acid, potassium salt		No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)	

	CAS Number	Aspiration hazard
Hydrotreated light petroleum distillate		Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	Not applicable
Sulfated oleic acid, potassium salt	68473-93-8	Not applicable

SECTION 12: Ecological Information

12.1. Toxicity Ecotoxicity Effects

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Hydrotreated light petroleum distillate	64742-47-8	EC50 (72h) > 1,000 mg/L (Skeletonema costatum) ErL50 (72h) > 1000 mg/L (Pseudokirchneriella subcapitata) EbL50 (72h) > 1000 mg/L (Pseudokirchneriella subcapitata) NOELR (72h) 1000 mg/L (Pseudokirchneriella subcapitata)	LC50 (96h) > 10,000 mg/L (Scophthalmus maximus) LL50 (96h) > 1000 mg/L (Oncorhynchus mykiss)	No information available	LC50 (48h) > 10,000 mg/L (Acartia tonsa) EC50 (48h) 1100 mg/L (Daphnia pulex) LC50 (48h) 0.12 mg/L (Daphnia magna) EL50 (48h) > 1000 mg/L (Daphnia magna)
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	EC50 972h) 70.4 mg/L (Desmodesmus subspicatus) (similar substance)	LC50 (96h) >100 mg/L (Danio rerio) (similar substance)	EC0 (28d) 15 mg/L (Activated sludge, domestic) (similar substance)	EC50 (48h) 32.3 mg/L (Daphnia magna) (similar substance)
Sulfated oleic acid, potassium salt	68473-93-8	EC50 (72h) 70.4 mg/L (Desmodesmus subspicatus) (similar substance) NOEC (72h) 3.16 mg/L (Desmodesmus subspicatus) (similar substance)	LC50 (96h) > 100 mg/L (Danio rerio) (similar substance)	EC0 (28d) 15 mg/L (Activated sludge) (similar substance)	EC50 (48h) 32.3 mg/L (Daphnia magna) (similar substance)

12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Hydrotreated light petroleum distillate	64742-47-8	Readily biodegradable (40% @ 28d)
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	(61% @ 28d)
Sulfated oleic acid, potassium salt	68473-93-8	Readily biodegradable (61% @ 28d) (similar
·		substances)

12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Hydrotreated light petroleum distillate	64742-47-8	No information available
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	0.51
Sulfated oleic acid, potassium salt	68473-93-8	BCF = 70.87 L/kg ww (calculated) (similar substance)

12.4. Mobility in soil

Substances	CAS Number	Mobility
Hydrotreated light petroleum distillate	64742-47-8	No information available
Soybean oil, methyl ester, sulfated, sodium salt	68918-47-8	No information available
Sulfated oleic acid, potassium salt	68473-93-8	No information available

12.5. Results of PBT and vPvB assessment

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

Substances	PBT and vPvB assessment
Hydrotreated light petroleum distillate	Not PBT/vPvB
Soybean oil, methyl ester, sulfated, sodium salt	Not PBT/vPvB
Sulfated oleic acid, potassium salt	Not PBT/vPvB

12.6. Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Disposal Method

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

Contaminated Packaging Follow all applicable national or local regulations.

SECTION 14: Transport Information

IMDG/IMO

UN Number: Not restricted **UN Proper Shipping Name:** Not restricted **Transport Hazard Class(es):** Not applicable Not applicable **Packing Group: Environmental Hazards:** Not applicable

RID

UN Number: Not restricted **UN Proper Shipping Name:** Not restricted Transport Hazard Class(es): Not applicable **Packing Group:** Not applicable

Environmental Hazards: Not applicable

ADR

UN Number: Not restricted Not restricted **UN Proper Shipping Name: Transport Hazard Class(es):** Not applicable **Packing Group:** Not applicable **Environmental Hazards:** Not applicable

IATA/ICAO

UN Number: Not restricted Not restricted **UN Proper Shipping Name:** Transport Hazard Class(es): Not applicable **Packing Group:** Not applicable **Environmental Hazards:** Not applicable

14.1. UN Number: Not restricted

14.2. UN Proper Shipping Name: Not restricted

14.3. Transport Hazard Class(es): Not applicable

14.4. Packing Group: Not applicable

14.5. Environmental Hazards: Not applicable

14.6. Special Precautions for User: None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

EINECS Inventory This product, and all its components, complies with EINECS

US TSCA Inventory All components listed on inventory or are exempt.

Canadian DSL Inventory Product contains one or more components not listed on the inventory.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering

Classes (WGK)

WGK 1: Low hazard to waters.

15.2. Chemical Safety Assessment

No information available

SECTION 16: Other Information

Full text of H-Statements referred to under sections 2 and 3

H304 - May be fatal if swallowed and enters airways

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

Key or legend to abbreviations and acronyms

bw - body weight

CAS - Chemical Abstracts Service

CLP - REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Classification,

Labelling and Packaging of substances and mixtures

EC - European Commission

EC10 - Effective Concentration 10%

EC50 – Effective Concentration 50%

EEC - European Economic Community

ErC50 - Effective Concentration growth rate 50%

IBC Code - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

LC50 - Lethal Concentration 50%

LD50 - Lethal Dose 50%

LL0 - Lethal Loading 0%

LL50 - Lethal Loading 50%

MARPOL - International Convention for the Prevention of Pollution from Ships

mg/kg - milligram/kilogram

mg/L - milligram/liter

NIOSH - National Institute for Occupational Safety and Health

NOEC - No Observed Effect Concentration

NTP - National Toxicology Program

OEL – Occupational Exposure Limit

PBT - Persistent Bioaccumulative and Toxic

PC - Chemical Product category

PEL - Permissible Exposure Limit

ppm - parts per million

PROC - Process category

REACH - REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the

Registration, Evaluation, Authorisation and Restriction of Chemicals STEL - Short Term Exposure Limit SU - Sector of Use category

Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 08-Sep-2015

Revision Note

SDS sections updated: 1

This safety data sheet complies with the requirements of Regulation (EC) No. 453/2010

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End of Safety Data Sheet