HALLIBURTON

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

OilPerm A&B Blend

Revision Date: 25-Sep-2013 Revision Number: 3

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name OilPerm A&B Blend

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

Recommended Use Surfactant

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 Energy Services

Halliburton House, Howemoss Place

Kirkhill Industrial Estate

Dyce

Aberdeen, AB21 0GN United Kingdom

Emergency Phone Number: +44 1224 795277 or +1 281 575 5000

www.halliburton.com

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

1.4 Emergency telephone number

+44 1224 795277 or +1 281 575 5000

Emergency telephone - §45 - (EC)1	mergency telephone - §45 - (EC)1272/2008				
Europe	12				
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				
Spain	Poison Information Service (ES): +34 91 562 04 20				
United Kingdom	NHS Direct (UK): +44 0845 46 47				

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Skin Corrosion / irritation	Category 2 - H315
Serious Eye Damage / Eye Irritation	Category 1 - H318
Skin Sensitization	Category 1 - H317

Carcinogenicity	Category 2 - H351
Acute Aquatic Toxicity	Acute 1 - H400
Chronic Aquatic Toxicity	Chronic 1 - H410
Flammable liquids.	Category 2 - H225

Classification according to EU Directives 67/548/EEC or 1999/45/EC

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

Classification Flammable

Xn - Harmful.

N - Dangerous For The Environment.

Risk Phrases R10 Flammable.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects

in the aquatic environment.

2.2 Label Elements

Hazard Pictograms



Signal Word

Danger

Hazard Statements

H225 - Highly flammable liquid and vapor

H318 - Causes serious eye damage

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer

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

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

P370 + P 378 - In case of fire: Use CO2, dry chemical, or foam

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

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical advice/attention

Contains

Substances CAS Number Ethanol 64-17-5

Citrus, extract 94266-47-4
Terpenes and Terpenoids, sweet orange-oil 68647-72-3
Isopropanol 67-63-0
Heavy aromatic petroleum naphtha 64742-94-5
Poly(oxy-1,2-ethanediyl), 127087-87-0

alpha-(4-nonylphenyl)-omega-hydroxy-, branched

Naphthalene 91-20-3 1,2,4 Trimethylbenzene 95-63-6

2.3 Other Hazards

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	EINECS	CAS Number	PERCENT (w/w)	EEC Classification	EU - CLP Substance Classification	REACH No.
Ethanol	200-578-6	64-17-5	10 - 30%	F; R11	Flam. Liq. 2 (H225)	No data available
Citrus, extract	304-454-3	94266-47-4	5 - 10%	R10 Xi; R38-43 Xn; R65 N; R50/53	Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 3 (H402) Aquatic Chronic 3 (H412) Flam. Liq. 3 (H226)	01-21119493353-35
Terpenes and Terpenoids, sweet orange-oil	232-433-8	68647-72-3	5 - 10%	R10 Xn; R65 Xi; R38-R43 N;50/53	Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam. Liq. 3 (H226)	No data available
Isopropanol	200-661-7	67-63-0	5 - 10%	F; R11 Xi; R36 R67	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	01-2119457558-25
Heavy aromatic petroleum naphtha	265-198-5	64742-94-5	1 - 5%	Xn; R65	Asp. Tox. 1 (H304)	No data available
Poly(oxy-1,2-ethanedi yl), alpha-(4-nonylphenyl) -omega-hydroxy-, branched	500-315-8	127087-87-0	1 - 5%	Xn; R22 Xi; R38-41 N: R51/53	Acute Tox 4 (H302) Eye Damage 1 (H318) Skin Irrit. 2 (H315)	No data available
Naphthalene	202-049-5	91-20-3	0 - 1%	Carc.Cat.3; R40 Xn; R22 N; R50-53	Acute Tox. 4 (H302) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
1,2,4 Trimethylbenzene	202-436-9	95-63-6	0 - 1%	R10 Xn; R20 Xi; R36/37/38 N; R51-53	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226)	No data available

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation If inhaled, remove to fresh air. If not breathing give artificial respiration,

preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical

attention.

Eyes Check for and remove contact lenses if present. In case of contact, or

suspected contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention immediately after flushing.

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. Slowly dilute with 1-2 glasses of water or milk and

seek medical attention. Never give anything by mouth to an unconscious person. Get medical attention! If vomiting occurs, keep head lower than hips to

prevent aspiration.

4.2 Most Important symptoms and effects, both acute and delayed

May cause severe eye irritation. May cause skin irritation. May cause allergic skin reaction. May be harmful if swallowed. Potential carcinogen.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

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

May be ignited by heat, sparks or flames. Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce toxic gases.

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.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas. See Section 12 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. Remove ignition sources and work with non-sparking tools. Scoop up and remove. Contain spill with sand or other inert materials.

6.4 Reference to other sections

See Section 12 for additional information.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Ground and bond containers when transferring from one container to another. Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Avoid breathing mist. 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 from heat, sparks, and open flames. Keep container closed when not in use. Terpene containing products should be stored in phenolic-lined metal, stainless steel, PET, or fluorinated plastic containers. Product has a shelf life of 24 months.

7.3 Specific End Use(s)

Exposure Scenario No information available Other Guidelines No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits

Expecuie Ellinic					
Substances	CAS Number	EU	UK OEL	Netherlands	France OEL
Ethanol	64-17-5	'''		TWA: 260 mg/m ³ STEL: 1900 mg/m ³	100 ppm
Citrus, extract	94266-47-4	Not applicable	Not applicable	Not applicable	Not applicable

Terpenes and Terpenoids, sweet orange-oil	68647-72-3	Not applicable	Not applicable	Not applicable	Not applicable
Isopropanol	67-63-0	Not applicable	STEL: 500 ppm STEL: 1250 mg/m ³ TWA: 400 ppm TWA: 999 mg/m ³	Not applicable	Not applicable
Heavy aromatic petroleum naphtha	64742-94-5	Not applicable	Not applicable	Not applicable	Not applicable
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-ome ga-hydroxy-, branched	127087-87-0	Not applicable	Not applicable	Not applicable	Not applicable
Naphthalene	91-20-3	Not applicable	10 ppm	TWA: 50 mg/m ³ STEL: 80 mg/m ³	10 ppm
1,2,4 Trimethylbenzene	95-63-6	Not applicable	25 ppm	TWA: 100 mg/m ³ STEL: 200 mg/m ³	20 ppm

Substances	CAS Number	Germany MAK/TRK	Spain	Portugal	Finland
Ethanol	64-17-5	TWA: 500 ppm TWA: 960 mg/m ³ MAK: 500 ppm MAK: 960 mg/m ³	VLA-ED: 1000 ppm VLA-ED: 1910 mg/m ³	TWA: 1000 ppm	STEL: 1300 ppm STEL: 2500 mg/m ³ TWA: 1000 ppm TWA: 1900 mg/m ³
Citrus, extract	94266-47-4	Not applicable	Not applicable	Not applicable	Not applicable
Terpenes and Terpenoids, sweet orange-oil	68647-72-3	Not applicable	Not applicable	Not applicable	Not applicable
Isopropanol	67-63-0	TWA: 200 ppm TWA: 500 mg/m ³ MAK: 200 ppm MAK: 500 mg/m ³	500 ppm VLA-EC; 1250 mg/m³ VLA-EC VLA-ED: 400 ppm VLA-ED: 998 mg/m³	STEL: 400 ppm TWA: 200 ppm	STEL: 250 ppm STEL: 620 mg/m³ TWA: 200 ppm TWA: 500 mg/m³
Heavy aromatic petroleum naphtha	64742-94-5	Not applicable	Not applicable	Not applicable	Not applicable
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-ome ga-hydroxy-, branched	127087-87-0	Not applicable	Not applicable	Not applicable	Not applicable
Naphthalene	91-20-3	10 ppm	15 ppm VLA-EC; 80 mg/m³ VLA-EC VLA-ED: 10 ppm VLA-ED: 53 mg/m³	STEL: 15 ppm TWA: 10 ppm	STEL: 2 ppm STEL: 10 mg/m³ TWA: 1 ppm TWA: 5 mg/m³
1,2,4 Trimethylbenzene	95-63-6	TWA: 20 ppm TWA: 100 mg/m³ MAK: 20 ppm MAK: 100 mg/m³	VLA-ED: 20 ppm VLA-ED: 100 mg/m ³	TWA: 25 ppm	TWA: 20 ppm TWA: 100 mg/m ³

Substances	CAS Number	Austria	Ireland	Switzerland	Norway
Ethanol	64-17-5	Not applicable	Not applicable	Not applicable	STEL: 625 ppm STEL: 1187.5 mg/m³ TWA: 500 ppm TWA: 950 mg/m³
Citrus, extract	94266-47-4	Not applicable	Not applicable	Not applicable	Not applicable
Terpenes and Terpenoids, sweet orange-oil	68647-72-3	Not applicable	Not applicable	Not applicable	Not applicable
Isopropanol	67-63-0	Not applicable	Not applicable	Not applicable	STEL: 150 ppm STEL: 306.25 mg/m³ TWA: 100 ppm TWA: 245 mg/m³
Heavy aromatic petroleum naphtha	64742-94-5	Not applicable	Not applicable	Not applicable	Not applicable
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-ome ga-hydroxy-, branched	127087-87-0	Not applicable	Not applicable	Not applicable	Not applicable
Naphthalene	91-20-3	Not applicable	Not applicable	Not applicable	STEL: 20 ppm STEL: 75 mg/m³ TWA: 10 ppm TWA: 50 mg/m³
1,2,4 Trimethylbenzene	95-63-6	Not applicable	Not applicable	Not applicable	STEL: 30 ppm STEL: 150 mg/m³ TWA: 20 ppm TWA: 100 mg/m³

Substances	CAS Number	Italy	Poland	Hungary	Czech Republic
Ethanol	64-17-5	Not applicable			TWA: 1000 mg/m ³
				STEL: 7600 mg/m ³	
Citrus, extract	94266-47-4	Not applicable	Not applicable	Not applicable	Not applicable

Terpenes and Terpenoids, sweet orange-oil	68647-72-3	Not applicable	Not applicable	Not applicable	Not applicable
Isopropanol	67-63-0	Not applicable		TWA: 500 mg/m³ STEL: 2000 mg/m³	TWA: 500 mg/m ³
Heavy aromatic petroleum naphtha	64742-94-5	Not applicable	Not applicable	Not applicable	Not applicable
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-ome ga-hydroxy-, branched	127087-87-0	Not applicable	Not applicable	Not applicable	Not applicable
Naphthalene	91-20-3	Not applicable	NDSCh: 50 mg/m ³ NDS: 20 mg/m ³	TWA: 50 mg/m ³	TWA: 50 mg/m ³
1,2,4 Trimethylbenzene	95-63-6	TWA: 20 ppm TWA: 100 mg/m ³	NDSCh: 170 mg/m ³ NDS: 100 mg/m ³	TWA: 100 mg/m ³	TWA: 100 mg/m ³

Substances	CAS Number	Denmark
Ethanol	64-17-5	TWA: 1000 ppm TWA: 1900 mg/m ³
Citrus, extract	94266-47-4	Not applicable
Terpenes and Terpenoids, sweet orange-oil	68647-72-3	25 ppm
Isopropanol	67-63-0	TWA: 200 ppm TWA: 490 mg/m ³
Heavy aromatic petroleum naphtha	64742-94-5	Not applicable
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	Not applicable
Naphthalene	91-20-3	TWA: 10 ppm TWA: 50 mg/m ³
1,2,4 Trimethylbenzene	95-63-6	TWA: 20 ppm TWA: 100 mg/m ³

Derived No Effect Level (DNEL) Worker

No information available.

General Population

Predicted No Effect Concentration (PNEC)

No information available.

8.2 Exposure controls

Engineering Controls

Remarks/ - Method

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

good cross ventilation.

Personal protective equipment

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, 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.

In high concentrations, supplied air respirator or a self-contained breathing apparatus.

Hand Protection Nitrile gloves. Impervious rubber gloves.

Skin Protection Rubber apron.

Eye Protection 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 No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State: Liquid Color: Light amber

Odor Threshold: No information available Citrus Odor:

Values Property

pH:

Freezing Point/Range

No information available. **Melting Point/Range** No data available **Boiling Point/Range** No data available **Flash Point** 17.5 °C PMCC **Evaporation rate** No data available

Vapor PressureNo data availableVapor DensityNo data available

Specific Gravity 0.91

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

9.2 Other information

VOC Content (%) No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Not applicable

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

lodine pentafluorethylene Strong acids. Strong alkalis. Strong oxidizers.

10.6 Hazardous Decomposition Products

Carbon monoxide and carbon dioxide. Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute Toxicity

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

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

giddiness and unconsciousness.

Eye Contact May cause severe eye irritation.

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

an allergic skin reaction. May be absorbed through the skin and produce effects similar

to those caused by inhalation and/or ingestion.

Ingestion Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting,

nausea, and diarrhea. May cause central nervous system depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech, giddiness, tremors and convulsions.

Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty

breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

Chronic Effects/CarcinogenicityRepeated overexposure may cause liver and kidney effects.

The International Agency for Research on Cancer (IARC) has evaluated naphthalene and determined it to be a possible carcinogen to humans (Group 2B, based on sufficient evidence in experimental animals and inadequate

evidence in humans).

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	64-17-5	7060 mg/kg (Rat)	No data available	124.7 mg/L (Rat) 4 h
Citrus, extract	94266-47-4	> 5000 mg/kg	No data available	No data available
Terpenes and Terpenoids, sweet orange-oil	68647-72-3	No data available	No data available	No data available

Isopropanol	67-63-0	4396 mg/kg (Rat) 3600 mg/kg (mouse)	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat)4 h
Heavy aromatic petroleum naphtha	64742-94-5	5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	590 mg/m³(Rat)4 h
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-o mega-hydroxy-, branched	,127087-87-0	1310 mg/kg (Rat)	LD50: > 2500 mg/kg	No data available
Naphthalene	91-20-3	490 mg/kg (Rat)	2500 mg/kg (Rat) 20 g/kg (Rabbit) 1120 mg/kg (Rabbit)	340 mg/m³ (Rat) 1 h
1,2,4 Trimethylbenzene	95-63-6	3400 mg/kg (Rat) 8970 mg/kg (Rat)	3160 mg/kg(Rabbit)	18 g/m³(Rat)4 h

12. ECOLOGICAL INFORMATION

12.1 Toxicity Ecotoxicity Effects

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethanol	64-17-5	No information available	LC50: > 100 mg/L (Pimephales promelas)	No information available	LC50: 9268 - 14221 mg/L (Daphnia magna)
Citrus, extract	94266-47-4	EC50: 20.41 mg/l (Skeletonema costatum)	LC50: >1000 mg/l (Scophthalmus maximus)	No information available	LC50: 34.73 mg/l (Acartia tonsa)
Terpenes and Terpenoids, sweet orange-oil	68647-72-3	No information available	No information available	No information available	No information available
Isopropanol	67-63-0	EC50: > 1000 mg/l(Desmodesmus subspicatus)	LC50: 9640 mg/l (Pimephales promelas)	No information available	EC50: 13299 mg/l (Daphnia magna)
Heavy aromatic petroleum naphtha	64742-94-5	EC50: < 1 mg/l (Skeletonema costatum)	LC50: 2.34 mg/L (Oncorhynchus mykiss) LC50: 41 mg/L (Pimephales promelas) LC50: 0.84 mg/L (Oncorhynchus mykiss)	No information available	EC50: 0.95 mg/L (Daphnia magna) EC50: 0.55 mg/L (Daphnia magna)
Poly(oxy-1,2-ethanedi yl), alpha-(4-nonylphenyl) -omega-hydroxy-, branched	127087-87-0	No information available	No information available	No information available	No information available
Naphthalene	91-20-3	EC50: 0.4 mg/L (Skeletonema costatum)	5.74-6.44 mg/L (Pimephales promelas) 1.2 mg/L (Oncorhynchus gorbuscha)	No information available	LC50: 2.16 mg/L (Daphnia magna)
1,2,4 Trimethylbenzene	95-63-6	No information available	LC50: 7.19-8.28 mg/L (Pimephales promelas)	No information available	EC50: 6.14 mg/L (Daphnia magna)

12.2 Persistence and degradability

No information available

12.3 Bioaccumulative potential

No information available

Substances	Log Pow		
Ethanol	-0.32		
Citrus, extract	4.23		
Heavy aromatic petroleum naphtha	2.9 - 6.1		
Naphthalene	3.28		
1,2,4 Trimethylbenzene	3.42		

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal Method
Contaminated Packaging

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

Follow all applicable national or local regulations.

14. TRANSPORT INFORMATION

IMDG/IMO

UN Number: UN1993,

UN Proper Shipping Name: Flammable Liquid, N.O.S.

Transport Hazard Class(es): , 3 Packing Group: , II

EMS: EmS F-E, S-E

RID

UN Number: UN1993,

UN Proper Shipping Name: Flammable Liquid, N.O.S.

Transport Hazard Class(es): , 3 Packing Group: , II

ADR

UN Number: UN1993,

UN Proper Shipping Name: Flammable Liquid, N.O.S.

Transport Hazard Class(es): , 3 Packing Group: , II

IATA/ICAO

UN Number: UN1993,

UN Proper Shipping Name: Flammable Liquid, N.O.S.

Transport Hazard Class(es): , 3 Packing Group: , II

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

15. REGULATORY INFORMATION

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

International Inventories

All of the components in the product are on the following Inventory lists: All of the components in the product are on the following Inventory lists:.

EINECS Inventory
US TSCA Inventory
Canadian DSL Inventory

This product does not comply with EINECS
All components listed on inventory or are exempt.
All components listed on inventory or are exempt.

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 2: Hazard to waters.

15.2 Chemical Safety Assessment

No information available

16. OTHER INFORMATION

Full text of R-phrases referred to under Sections 2 and 3

R10 Flammable.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 25-Sep-2013

Revision Note
Not applicable

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

Disclaimer Statement

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End of Safety Data Sheet