



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 081414

### OSYRIS DWY 6000

Date of the previous version: 2016-04-14

Revision Date: 2016-04-14

Version 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

<b>Product name</b>	<b>OSYRIS DWY 6000</b>
<b>Number</b>	9QD
<b>Substance/mixture</b>	Mixture

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

<b>Identified uses</b>	Preservatives, Corrosion inhibitor.
<b>Sector of use</b>	Metal working .

#### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	<p>A - TOTAL UK LIMITED            One Euston Square            40 Melton Street. London. NW1 2FD            UNITED KINGDOM            Tel: +44 (0)20 7339 8000            Fax: +44 (0)20 7339 8033</p> <p>B - TOTAL LUBRIFIANTS            562 Avenue du Parc de L'île            92029 Nanterre Cedex            FRANCE            Tél: +33 (0)1 41 35 40 00            Fax: +33 (0)1 41 35 84 71</p>
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#### For further information, please contact:

<b>Contact Point</b>	A - HSE
	B - HSE
<b>E-mail Address</b>	A - rm.gb-msds@total.co.uk
	B - rm.msds-lubs@total.com

#### 1.4. Emergency telephone number

00 33 149 00 00 49 (24h/24, 7d/7)  
 TOTAL UK Ltd: + 44 (0) 20 7339 8000  
 For Lubricants only: TOTAL Lubricants - +44 (0)1977 636200  
 For bitumen only: Total Bitumen +44 (0) 17 7272 9302

UK: National Poisons Information Service (NPIS): NHS111 or a doctor

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## Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture**REGULATION (EC) No 1272/2008***For the full text of the H-Statements mentioned in this Section, see Section 2.2.***Classification**

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008  
 Aspiration toxicity - Category 1 - (H304)

2.2. Label elements

**Labelled according to** REGULATION (EC) No 1272/2008

Contains Benzene sulfonic acid, mono-C16-24-alkyl derivatives, calcium salts

**Signal Word**

DANGER

**Hazard Statements**

H304 - May be fatal if swallowed and enters airways

**Precautionary statements**

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTRE/doctor

P331 - Do NOT induce vomiting

**Supplemental Hazard Statements**

EUH066 - Repeated exposure may cause skin dryness or cracking

Contains Benzene sulfonic acid, mono-C16-24-alkyl derivatives, calcium salts. May produce an allergic reaction

2.3. Other hazards

**Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.

**Environmental properties** Should not be released into the environment.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

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**Hazardous components**

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	GHS Classification
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	918-167-1	01-2119472146-39	^	>50	Asp. Tox. 1 (H304)
2-Butoxyethanol	203-905-0	01-2119475108-36	111-76-2	<5.5	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
Diacetone alcohol	204-626-7	no data available	123-42-2	<2.5	Eye Irrit. 2 (H319)
Calcium alkylnaphthalenesulfonate	260-991-2	no data available	57855-77-3	<2	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
Benzene sulfonic acid, mono-C16-24-alkyl derivatives, calcium salts	274-263-7	01-2119492616-28	70024-69-0	<2	Skin Sens. 1B (H317)

**Additional information**

Product with solvent base.

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

**Section 4: FIRST AID MEASURES****4.1. Description of first aid measures****General advice**

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

**Eye contact**

Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.

**Skin contact**

Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.

**Inhalation**

In case of exposure to intense concentrations of vapours, fumes or spray, transport the person away from the contaminated zone, keep warm and allow to rest.

**Ingestion**

Do not ingest. If swallowed then seek immediate medical assistance. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion. In this case, the casualty should be sent immediately to hospital.

**4.2. Most important symptoms and effects, both acute and delayed****Eye contact**

Burning feeling and temporary redness.

**Skin contact**

Repeated exposure may cause skin dryness or cracking.

**Inhalation**

The inhalation of vapours or aerosols may be irritating for the respiratory tract and for mucous membranes. Vapours inhaled in strong concentration have a narcotic effect on the central nervous system.

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**Ingestion**

May be fatal if swallowed and enters airways. If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours).  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

4.3. Indication of immediate medical attention and special treatment needed, if necessary**Notes to physician**

Treat symptomatically.

## Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media**Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>). Dry powder. Foam. Water spray or fog.**Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture**Special hazard**

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.  
Vapours may form explosive mixtures with air.

5.3. Precautions for fire-fighters**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

**Other information**

Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures**General Information**

Evacuate non-essential personnel. Use personal protective equipment. Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Ensure adequate ventilation. Remove all sources of ignition.

6.2. Environmental precautions**General Information**

Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

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<b>Methods for cleaning up</b>	Prevent further leakage or spillage if safe to do so. Use non-sparking handtools and explosionproof electrical equipment. Dam up. Contain spillage, and then collect with non-combustable 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.
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### 6.4. Reference to other sections

<b>Personal protective equipment</b>	See Section 8 for more detail.
<b>Waste treatment</b>	See section 13.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

<b>Advice on safe handling</b>	When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.
<b>Prevention of fire and explosion</b>	Handle away from any source of ignition (open flame and sparks) and heat (hot manifolds or casings). Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment. Use explosionproof electrical equipment.
<b>Hygiene measures</b>	Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

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

<b>Technical measures/Storage conditions</b>	Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Preferably keep in the original container. Otherwise, reproduce all the statutory information from the labels onto the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.
<b>Materials to avoid</b>	Strong acids. Oxidizing agents.

### 7.3. Specific use(s)

<b>Specific use(s)</b>	No information available.
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## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parametres

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## Exposure limits

Mineral oil mist:  
USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined)  
Metalworking fluids:  
USA: NIOSH (REL) TWA 0.5 mg/m<sup>3</sup>  
Components with workplace control parameters

Chemical Name	European Union	The United Kingdom	Ireland
2-Butoxyethanol 111-76-2	TWA 20 ppm TWA 98 mg/m <sup>3</sup> STEL 50 ppm STEL 246 mg/m <sup>3</sup> S*	STEL 50 ppm STEL 246 mg/m <sup>3</sup> TWA 25 ppm TWA 123 mg/m <sup>3</sup> Skin	TWA 20 ppm TWA 98 mg/m <sup>3</sup> STEL 50 ppm STEL 246 mg/m <sup>3</sup> Skin
Diacetone alcohol 123-42-2		STEL 75 ppm STEL 362 mg/m <sup>3</sup> TWA 50 ppm TWA 241 mg/m <sup>3</sup>	TWA 50 ppm TWA 240 mg/m <sup>3</sup> STEL 75 ppm STEL 360 mg/m <sup>3</sup>

## Legend

See section 16

Chemical Name	European Union	The United Kingdom	Ireland
2-Butoxyethanol 111-76-2		240	We are not aware of any national exposure limit

## DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
2-Butoxyethanol 111-76-2	1091 mg/m <sup>3</sup> Inhalation 89 mg/kg bw/day Dermal	246 mg/m <sup>3</sup> Inhalation	98 mg/m <sup>3</sup> Inhalation 125 mg/kg bw/day Dermal	
Diacetone alcohol 123-42-2		240 mg/m <sup>3</sup> Inhalation	9.4 mg/kg bw/day Dermal 66.4 mg/m <sup>3</sup> Inhalation	66.4 mg/m <sup>3</sup> Inhalation
Benzene sulfonic acid, mono-C16-24-alkyl derivatives, calcium salts 70024-69-0			0.66 mg/m <sup>3</sup> Inhalation 3.33 mg/kg bw/day Dermal	

## DNEL Consumer

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
2-Butoxyethanol 111-76-2	426 mg/m <sup>3</sup> Inhalation 89 mg/kg bw/day Dermal 26.7 mg/kg bw/day Oral	147 mg/m <sup>3</sup> Inhalation	59 mg/m <sup>3</sup> Inhalation 75 mg/kg bw/day Dermal 6.3 mg/kg bw/day Oral	
Diacetone alcohol 123-42-2		120 mg/m <sup>3</sup> Inhalation	3.4 mg/kg bw/day Dermal 11.8 mg/m <sup>3</sup> Inhalation 3.4 mg/kg bw/day Oral	11.8 mg/m <sup>3</sup> Inhalation
Benzene sulfonic acid, mono-C16-24-alkyl derivatives, calcium salts 70024-69-0			0.33 mg/m <sup>3</sup> Inhalation 1.667 mg/kg bw/day Dermal 0.8333 mg/kg bw/day Oral	

## Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
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2-Butoxyethanol 111-76-2	8.8 mg/l fw 0.88 mg/l mw 9.1 mg/l or	34.6 mg/kg fw dw 3.46 mg/kg mw dw	3.13 mg/kg		463 mg/l	20 mg/kg
Diacetone alcohol 123-42-2	2 mg/l fw 0.2 mg/l mw 1 mg/l or	9.06 mg/kg fw dw 0.91 mg/kg mw dw	0.63 mg/kg dw		82 mg/l	
Benzene sulfonic acid, mono-C16-24-alkyl derivatives, calcium salts 70024-69-0	1 mg/l fw 1 mg/l mw 10 mg/l or	723500000 mg/kg dw fw 723500000 mg/kg dw mw	868700000 mg/kg dw		100 mg/l	16.667 mg/kg food

## 8.2. Exposure controls

### Occupational Exposure Controls

#### Engineering measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

#### Personal protective equipment

##### General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

##### Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). Type A/P2. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

##### Eye protection

If splashes are likely to occur, wear: Safety glasses with side-shields.

##### Skin and body protection

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

##### Hand protection

Impervious gloves, aliphatic hydrocarbon resistant: Nitrile rubber, Fluorinated rubber. 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. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.

### Environmental exposure controls

#### General Information

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

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### Appearance

Clear

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<b>Colour</b>		brown	
<b>Physical state @20°C</b>		Liquid	
<b>Odour</b>		characteristic	
<b>Odour Threshold</b>		No information available	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
<b>pH</b>		Not applicable	
<b>Melting point/range</b>		No information available	
<b>Boiling point/boiling range</b>		No information available	
<b>Flash point</b>	<b>63 °C</b> <b>145 °F</b>		Cleveland closed cup Cleveland closed cup
<b>Evaporation rate</b>		No information available	
<b>Flammability Limits in Air</b>		No information available	
<b>Vapour pressure</b>		No information available	
<b>Vapour density</b>		No information available	
<b>Relative density</b>		No information available	
<b>Density</b>	798 kg/m <sup>3</sup>	@ 15 °C	
<b>Water solubility</b>		Insoluble	
<b>Solubility in other solvents</b>		No information available	
<b>logPow</b>		No information available	
<b>Autoignition temperature</b>		No information available	
<b>Decomposition temperature</b>		No information available	
<b>Viscosity, kinematic</b>	3.5 mm <sup>2</sup> /s	@ 40 °C	ISO 3104
<b>Explosive properties</b>	Not explosive		
<b>Oxidising properties</b>	No information available		
<b>Possibility of hazardous reactions</b>	Not applicable		

9.2. Other information

<b>Freezing point</b>	No information available
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Section 10: STABILITY AND REACTIVITY
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10.1. Reactivity

<b>General Information</b>	No information available.
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10.2. Chemical stability

<b>Stability</b>	Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

<b>Hazardous reactions</b>	None under normal processing.
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10.4. Conditions to Avoid

<b>Conditions to Avoid</b>	Heat, flames and sparks. Take precautionary measures against static discharges.
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10.5. Incompatible materials**Materials to avoid** Strong acids. Oxidizing agents.10.6. Hazardous Decomposition Products**Hazardous Decomposition Products** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.**Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**Acute toxicity Local effects Product Information**

<b>Skin contact</b>	. Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	. Burning feeling and temporary redness.
<b>Inhalation</b>	. The inhalation of vapours or aerosols may be irritating for the respiratory tract and for mucous membranes. Vapours inhaled in strong concentration have a narcotic effect on the central nervous system.
<b>Ingestion</b>	. May be fatal if swallowed and enters airways. If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
<b>ATEmix (oral)</b>	5,170.00 mg/kg
<b>ATEmix (dermal)</b>	4,928.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	25.90 mg/l
<b>ATEmix (inhalation-vapour)</b>	26.30 mg/l

**Acute toxicity - Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	LD50 > 5000 mg/kg bw (rat - OECD 401)	LD50 (24h) > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (8h) > 5000 mg/m <sup>3</sup> (vapour) (rat - OECD 403)
2-Butoxyethanol	LD50 1746 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit - OECD 402)	LC50(4h) 2 - 20 mg/l (Rat)
Diacetone alcohol	= 4 g/kg ( Rat )	= 13500 mg/kg ( Rabbit )	
Calcium alkylnaphthalenesulfonate	LD50 > 5000 mg/kg Oral (Rat)	LD50 > 20000 mg/kg Dermal (rabbit)	LC50/1hr > 18 mg/l Inhalation (rat)
Benzene sulfonic acid, mono-C16-24-alkyl derivatives, calcium salts	LD50 > 5000 mg/kg (Rat - OECD 401)	LD50 > 5000 mg/kg (Rabbit - OECD 402)	

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**Sensitisation**

Not classified as a sensitizer. Contains sensitizer(s). May produce an allergic reaction. The supplier of one of the components contained within this formulation has indicated that they have data, which confirms that at the concentration used, no sensitisation classification is required.

**Specific effects****Carcinogenicity**

This product is not classified carcinogenic.

**Mutagenicity**

This product is not classified as mutagenic.

**Reproductive toxicity**

This product does not present any known or suspected reproductive hazards.

**Repeated Dose Toxicity****Subchronic Toxicity**

No information available.

**Target Organ Effects (STOT)****Target Organ Effects (STOT)**

No information available.

**Other information****Other adverse effects**

Frequent or prolonged skin contact destroys the lipoacid cutaneous layer and may cause dermatitis.

**Section 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

Not classified.

**Acute aquatic toxicity - Product Information**

No experimental data available .

**Acute aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics ^	ErL50 (72h) > 1000 mg/l (Pseudokirchnerella subcapitata - OECD 201) EbL50 (72h) > 1000 mg/l (Pseudokirchnerella subcapitata - OECD 201)	EL50 (48h) > 1000 mg/l (Daphnia magna - OECD 202)	LL50 (96h) > 1000 mg/l (Oncorhynchus mykiss - OECD 203)	-
2-Butoxyethanol 111-76-2	EC50(72h) 1840 mg/l (Pseudokirchnerella subcapitata - static - OECD 201)	EC50 (48h) 1550 mg/l (Daphnia magna - static - OECD 202)	LC50 (96h) 1474 mg/l (Oncorhynchus mykiss - OECD203)	
Diacetone alcohol 123-42-2		EC50 (24h) = 8750 mg/L Daphnia magna	LC50 (96h) = 420 mg/L Lepomis macrochirus (static) LC50 (96h) = 420 mg/L Lepomis macrochirus ()	

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Benzene sulfonic acid, mono-C16-24-alkyl derivatives, calcium salts 70024-69-0	EC50 (72h) > 1000 mg/l (Pseudokirchnerella subcapitata - static)	EC50 (48h) > 1000 mg/l (WAF - Daphnia magna - static)	LL50 (96h) > 10000mg/l (WAF - Cyprinodon variegatus - OECD 203)	
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**Chronic aquatic toxicity - Product Information**

No information available.

**Chronic aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics ^	NOELR (72h) = 1000 mg/l (Pseudokirchnerella subcapitata - biomass - OECD 201) NOELR (72h) = 1000 mg/l (Pseudokirchnerella subcapitata - growth rate - OECD 201)	NOEC (21d) > 1 mg/l (Daphnia magna - OECD 211)	NOELR (28d) = 0,103 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	
2-Butoxyethanol 111-76-2		NOEC(21d) 100 mg/l (Daphnia magna - semi static - OECD 211)		

**Effects on terrestrial organisms**

No information available.

**12.2. Persistence and Degradability****General Information**

No product level data available.

**12.3. Bioaccumulative potential****Product Information**

No information available.

**logPow**

No information available

**Component Information**

Chemical Name	log Pow
2-Butoxyethanol - 111-76-2	0.83
Diacetone alcohol - 123-42-2	1.03

**12.4. Mobility in soil****Soil**

Given its physical and chemical characteristics, the product is generally mobile in the ground.

**Air**

Loss by evaporation is limited.

**Water**

Insoluble.

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12.5. Results of PBT and vPvB assessment**PBT and vPvB assessment** No information available.12.6. Other adverse effects**General Information** No information available.

## Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods**Waste from residues / unused products** Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.**EWG Waste Disposal No** The following Waste Codes are only suggestions: 12 01 07. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORT INFORMATION

ADR/RID not regulatedIMDG/IMO not regulatedICAO/IATA not regulatedADN

<b>UN/ID No</b>	UN9003
<b>Proper shipping name</b>	SUBSTANCES WITH A FLASH-POINT ABOVE 60°C AND NOT MORE THAN 100°C
<b>Hazard Class</b>	9
<b>Description</b>	UN9003, SUBSTANCES WITH A FLASH-POINT ABOVE 60°C AND NOT MORE THAN 100°C, 9

## Section 15: REGULATORY INFORMATION

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

European Union

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International Inventories No information available

Further information

No information available

15.2. Chemical Safety Assessment**Chemical Safety Assessment** No information available15.3. National regulatory informationThe United Kingdom

- Avoid exceeding occupational exposure limits (see section 8).

Ireland

- Avoid exceeding occupational exposure limits (see section 8).

## Section 16: OTHER INFORMATION

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

H302 - Harmful if swallowed  
 H304 - May be fatal if swallowed and enters airways  
 H312 - Harmful in contact with skin  
 H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H319 - Causes serious eye irritation  
 H332 - Harmful if inhaled  
 EUH066 - Repeated exposure may cause skin dryness or cracking

**Abbreviations, acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists  
 bw = body weight  
 bw/day = body weight/day  
 EC x = Effect Concentration associated with x% response  
 GLP = Good Laboratory Practice  
 IARC = International Agency for Research of Cancer  
 LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals  
 LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals  
 LL = Lethal Loading  
 NIOSH = National Institute of Occupational Safety and Health  
 NOAEL = No Observed Adverse Effect Level  
 NOEC = No Observed Effect Concentration  
 NOEL = No Observed Effect Level  
 OECD = Organization for Economic Co-operation and Development  
 OSHA = Occupational Safety and Health Administration  
 UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

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DNEL = Derived No Effect Level  
 PNEC = Predicted No Effect Concentration  
 dw = dry weight  
 fw = fresh water  
 mw = marine water  
 or = occasional release

**Legend** Section 8

TWA: Time Weight Average

STEL: Short Time Exposure Limit

+ Sensitiser

\*\* Hazard Designation

M: Mutagen

\*

C:

R:

Skin designation

Carcinogen

Toxic to reproduction

Revision Date: 2016-04-14

Revision Note \*\*\* Indicates updated section.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

**End of Safety Data Sheet**