

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 30935

MULTIS COMPLEX EP 2

Date of the previous version: 2015-04-15

Revision Date: 2016-06-17

Version 11

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

1.1. Product identifier

Product name	MULTIS COMPLEX EP 2
Number	B44
Substance/mixture	Mixture

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

Identified uses

Lubricating grease.

1.3. Details of the supplier of the safety data sheet

Supplier

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

B - TOTAL LUBRIFIANTS 562 Avenue du Parc de L'ile 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71

For further information, please contact:

Contact Point	A - HSE
E-mail Address	B - HSE 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

Section 2: HAZARDS IDENTIFICATION



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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*** Chronic aquatic toxicity - Category 3*** - (H412)***

2.2. Label elements

Labelled according to

REGULATION (EC) No 1272/2008

Hazard Statements *** H412 - Harmful to aquatic life with long lasting effects***

Precautionary statements

P273 - Avoid release to the environment P501 - Dispose of contents/ container to an approved waste disposal plant***

Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl 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

Hazardous components

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	GHS Classification
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts***	270-608-0***	01-2119493628-22	68457-79-4	1-<2.5	Aquatic Chronic 2 (H411) Eye Dam. 1 (H318) Skin Irrit. 2 (H315)
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl***	-	01-2119493620-38	۸	0.25-<1	Acute Tox. 4 (H302) Aquatic Chronic 2 (H411) Eye Dam. 1 (H318) Skin Sens. 1 (H317)***
(Z)-N-9-octadecenylpropane -1,3-diamine***	230-528-9***	no data available	7173-62-8	0.1-<0.25	STOT RE 1 (H372) Skin Corr. 1B (H314)



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					Eye Dam. 1 (H318) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Met. Corr. 1 (H290) Acute M factor = 10 Chronic M factor = 1***
(Z)-octadec-9-enylamine***	204-015-5***	no data available	112-90-3	0.01-<0.025	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Eye Dam. 1 (H318) STOT SE 3 (H335) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Acute M factor = 10 Chronic M factor = 10

Additional information Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.

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

	Section 4:	FIRST	AID N	NEASL	JRES
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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.***
Skin contact	Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital.***
Inhalation	Move to fresh air.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.***
4.2. Most important sympto	ms and effects, both acute and delayed
Eye contact	Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required.***
Skin contact	Not classified. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
Inhalation	Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and



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	diarrhoea.	
4.3. Indication of immedia	te medical attention and special treatment needed, if nec	essary
Notes to physician	Treat symptomatically.	
Section 5: FIRE-FIGHTING	MEASURES	
5.1. Extinguishing media		
Suitable extinguishing media	Carbon dioxide (CO 2). ABC 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 arisin	g from the substance or mixture	
Special hazard	Incomplete combustion and thermolysis may produce gases of varying toxici carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soo be highly dangerous if inhaled in confined spaces or at high concentration.	
5.3. Precautions for fire-fig	hters	
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 water must be disposed of in accordance with local regulations.	extinguishing
Section 6: ACCIDENTAL RE	ELEASE MEASURES	
6.1. Personal precautions,	protective equipment and emergency procedures	
General Information	Do not touch or walk through spilled material. Contaminated surfaces will be slippery. Use personal protective equipment. Ensure adequate ventilation. R sources of ignition.***	
6.2. Environmental precau	tions	

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 material for containment and cleaning up

Methods for cleaning up	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). Collect free product with suitable mechanical
	means. Keep in suitable, closed containers for disposal.***

6.4. Reference to other sections



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Personal protective equipment	See Section 8 for more detail.						
Waste treatment	See section 13.						
Section 7: HANDLING AND	STORAGE						
7.1. Precautions for safe h	nandling						
Advice on safe handling	When using, do not eat, drink or smoke. For personal protection see section 8. Use only well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eye and clothing.***						
Prevention of fire and explosion	Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.***						
Hygiene measures	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. In 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 st	orage, including any incompatibilities						
Technical measures/Storage conditions	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 a the statutory information from the labels onto the new container. Do not remove the haza 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.***	ard					
Materials to avoid	Strong oxidising agents.***						
7.3. Specific use(s)							
Specific use(s)	No information available.						
Section 8: EXPOSURE CON	ITROLS / PERSONAL PROTECTION						
8.1. Control parametres							
Exposure limits	Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined);	ł					
Legend	See section 16						
DNEL Worker (Industrial/Professi	onal)						
	erm, systemic Short term, local effects Long term, systemic Long term, local effe	cts					



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	effects		effects	
Dhaan han dithiain a sid	enects			
Phosphorodithioic acid,			11.87 mg/kg bw/day	
mixed O,O-bis(iso-Bu			Dermal	
and pentyl) esters, zinc			8.13 mg/m ³ Inhalation	
salts***				
68457-79-4				
Reaction products of			12.5 mg/kg/8h (dermal)	
4-methyl-2-pentanol and			8.56 mg/m³/8h	
diphosphorus			(inhalation)	
pentasulfide,			(ECHA CHEM)	
propoxylated, esterified				
with diphosphorus				
pentaoxide, and salted by				
amines, C12-14-				
tert-alkyl***				
^				
(Z)-N-9-octadecenylprop			0.035 mg/m ³ (inhalation)	
ane-1,3-diamine***			0.010 mg/kg bw/day	
7173-62-8			(dermal)***	
DNEL Consumer				
Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	effects		effects	0
Phosphorodithioic acid,			5.93 mg/kg bw/day	
mixed O,O-bis(iso-Bu			Dermal	
and pentyl) esters, zinc			2.06 mg/m ³ Inhalation	
salts***				
Juito			0.24 mg/kg bw/day Oral	
68457-79-4			0.24 mg/kg bw/day Orai	
68457-79-4				
68457-79-4 Reaction products of			6.25 mg/kg/24h (dermal)	
68457-79-4 Reaction products of 4-methyl-2-pentanol and			6.25 mg/kg/24h (dermal) 2.2 mg/m³/24h	
68457-79-4 Reaction products of			6.25 mg/kg/24h (dermal) 2.2 mg/m³/24h (inhalation)	
68457-79-4 Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide,			6.25 mg/kg/24h (dermal) 2.2 mg/m ³ /24h (inhalation) 0.25 mg/kg/24h (oral)	
68457-79-4 Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified			6.25 mg/kg/24h (dermal) 2.2 mg/m³/24h (inhalation)	
68457-79-4 Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus			6.25 mg/kg/24h (dermal) 2.2 mg/m ³ /24h (inhalation) 0.25 mg/kg/24h (oral)	
68457-79-4 Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by			6.25 mg/kg/24h (dermal) 2.2 mg/m ³ /24h (inhalation) 0.25 mg/kg/24h (oral)	
68457-79-4 Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-			6.25 mg/kg/24h (dermal) 2.2 mg/m ³ /24h (inhalation) 0.25 mg/kg/24h (oral)	
68457-79-4 Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by			6.25 mg/kg/24h (dermal) 2.2 mg/m ³ /24h (inhalation) 0.25 mg/kg/24h (oral)	

Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts*** 68457-79-4	4 µg/l fw 4.6 µg/l mw 45 µg/l or				100 mg/l	10.67 mg/kg food
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated,	•	3.13 mg/kg fw 0.313 mg/kg mw	2.54 mg/kg soil dw		24.33 mg/l	10 mg/kg food



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esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl*** ^				
(Z)-N-9-octadecenyl propane-1,3-diamin e***	1.72 mg/kg/dw fw 0.172 mg/kg/dw mw***	10 mg/kg/dw***	0.251 mg/l***	
7173-62-8				

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	None under normal use conditions. 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/P1. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.***
Eye protection	Tightly fitting safety goggles. Safety glasses with side-shields.
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.
Hand protection	Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency.***

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

Colour	
Physical state	@20°C

red solid



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Odour Odour Threshold		characteristic No information available***		
<u>Property</u> pH Melting point/range	<u>Values</u>	<u>Remarks</u> Not applicable Not applicable***	<u>Method</u>	
*** Boiling point/boiling range		*** No information available***	***	
Flash point		Not applicable***		
Evapouration rate Flammability Limits in Air		No information available No information available		
Upper *** Lower *** Vapour pressure Vapour density Relative density *** Density Water solubility Solubility in other solvents logPow Autoignition temperature Decomposition temperature Viscosity, kinematic Explosive properties Oxidising properties Possibility of hazardous reactions	*** *** 0.9*** ~ 900 kg/m ³ Not explosive Not applicable No information available	No information available*** No information available No information available (a) 15 °C Insoluble No information available No information available No information available No information available No information available No information available No information available Not applicable***	*** ***	
9.2. Other information				
Freezing point		No information available	***	
Drop point	>*** 275 °C	ISO 2176		
Section 10: STABILITY AND	D REACTIVITY			
10.1. Reactivity				
General Information	No information available.***			
10.2. Chemical stability				
Stability	Stable under recommended storage conditions.			
10.3. Possibility of hazardo	ous reactions			
Hazardous reactions	None under normal pro	cessing.		
10.4. Conditions to Avoid				



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Hazardous Decomposition Products None under normal use. 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

Skin contact	. Not classified. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
Eye contact	Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required.***
Inhalation	 Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.
Ingestion	. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphorodithioic acid, mixed	LD50 3600 mg/kg (Rat - OECD	LD50 > 20000 mg/kg (Rabbit -	
O,O-bis(iso-Bu and pentyl) esters, zinc salts***	401)	OECD 402)	
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl***			-
(Z)-N-9-octadecenylpropane-1,3-diamine***	LD50 500-1000 mg/kg (rat)***		
(Z)-octadec-9-enylamine***	LD50 1689 mg/kg bw (Rat)		

Sensitisation

Not classified as a sensitizer. Contains senitizer(s). May produce an allergic reaction.

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.



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Repeated Dose Toxicity

Subchronic Toxicity

No information available.

Target Organ Effects (STOT)

Other information

Other adverse effects

Characteristic skin lesions (oil blisters) may develop following prolonged and repeated exposures (contact with contaminated clothing).

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Harmful to aquatic life with long lasting effects.***

Acute aquatic toxicity - Product Information

No information available.***

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts*** 68457-79-4	EbL50 (72h) 21 mg/l (Scenedesmus subspicatus - OECD 201)	EC50 (48h) 23 mg/l (Daphnia magna - OECD 202)	LC50 (96h) 4.5 mg/l (Cyprinodon variegatus - OECD 203)	
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl***	EL50 (96h) > 15 mg (Selenastrum capricornutum - OECD 201) EC50 (96h) 6.4 mg/l (Pseudokirchnerella subcapitata - OECD 201) EC50 (96h) 15 mg/l (Pseudokirchnerella subcapitata - OECD 201) EC50 (96h) 6.4 mg/L (Selenastrum capricornutum- OECD TG 201) (ECHA CHEM)	EL50 (48h) ca. 91.4 mg/l (Daphnia magna - OECD 202)	LL50 (96h) ca. 24 mg/l (Oncorhynchus mykiss - OECD 203)	
(Z)-octadec-9-enylamine*** 112-90-3	ERC50 (72h) 0.46 mg/l (Desmodesmus subspicatus - OECD 201) EBC50 (72h) 0.38 mg/l (Desmodesmus subspicatus - OECD 201)	EC50 (48h) 0.011mg/l (Daphnia magna - OECD 202)	LC50 (96h) 0.11 mg/l (Pimephales promelas - OECD 203)	

Chronic aquatic toxicity - Product Information

No information available.

Chronic aquatic toxicity - Component Information



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Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts*** 68457-79-4		NOEC(21d) 0.8 mg/l Daphnia magna		
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl***	NOEC (96h) 1.7 mg/l (Pseudokirchnerella subcapitata - OECD 201) par NOEC (96h) 3.3 mg/l (Pseudokirchnerella subcapitata - OECD 201)	EL50 (21d) 0.91 mg/l (Daphnia magna - OECD 211) NOEL (21d) 0.12 mg/l (Daphnia magna - OECD 211) EL50 (21d) 0.66 mg/l (Daphnia magna - OECD 211)	-	EC50 (3h) ca. 2433 mg/L (Activated Sludge, domestic - OECD TG 209) (ECHA CHEM)
(Z)-N-9-octadecenylpropane -1,3-diamine*** 7173-62-8		NOEC(21d) > 0.001 - 0.01 mg/l (Daphnia magna)***		
(Z)-octadec-9-enylamine*** 112-90-3	NOEC(72h) 0.15 mg/l (Desmodesmus subspicatus - OECD 201) NOEC(96h) 0.01 mg/l (Selenastrum capricornutum - OECD 201)	NOEC(21d) 0.013 mg/l (Daphnia magna - OECD 211)		

Effects on terrestrial organisms

No information available.**

12.2. Persistence and Degradability

General Information

No information available.

12.3. Bioaccumulative potential

Product Information

No information available.***

logPow

No information available***

Component Information

Chemical Name	log Pow
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc	0.69
salts*** - 68457-79-4	
Reaction products of 4-methyl-2-pentanol and diphosphorus	< 0.30 to >7.10 (OECD TG 117) (ECHA CHEM)
pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and	
salted by amines, C12-14- tert-alkyl*** - ^	
(Z)-N-9-octadecenylpropane-1,3-diamine*** - 7173-62-8	0.03 à 25.7°C et pH 6.8***
12.4 Mability in sail	

12.4. Mobility in soil

Soil

Given its physical and chemical characteristics, the product has no soil mobility.***



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Air	Loss by evaporation is limited.***	
Water	The product is insoluble and floats on water.***	
12.5. Results of PBT and	vPvB assessment	
PBT and vPvB assessment	No information available.***	
12.6. Other adverse effect	<u>ets</u>	
General Information	No information available.***	
Section 13: DISPOSAL CC	NSIDERATIONS	
13.1. Waste treatment m	ethods	
Waste from residues / unused products	Should not be released into the environment. Dispose of in accordate Directives on waste and hazardous waste. Dispose of in accordance	
Contaminated packaging	Empty containers should be taken to an approved waste handling si disposal.***	ite for recycling or
EWC Waste Disposal No	The following Waste Codes are only suggestions:. 12 01 12. Accord Waste Catalogue, Waste Codes are not product specific, but application for waste should be assigned by the user based on the application for wasted.	ation specific. Waste
Section 14: TRANSPORT	NFORMATION	
ADR/RID	not regulated	
IMDG/IMO_	not regulated	
ICAO/IATA_	not regulated	

Section 15: REGULATORY INFORMATION

not regulated

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

European Union

ADN



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Further information

No information available

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

15.3. National regulatory information

The 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

H290 - May be corrosive to metals

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

- H314 Causes severe skin burns and eye damage
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H335 May cause respiratory irritation
- H372 Causes damage to the kidneys/ liver/ eyes/ brain/ respiratory system/ central nervous system through prolonged or
- repeated exposure in contact with skin
- H373 May cause damage to the kidneys/ liver/ eyes/ brain/ digestive system/ central nervous system through prolonged or repeated exposure if swallowed
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects
- H411 Toxic to aquatic life with long lasting effects***

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



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NOEL = No Obs	erved Effect Level				
OECD = Organization for Economic Co-operation and Development					
OSHA = Occupational Safety and Health Administration					
UVCB = Substa	nce of unknown or Variable con	nposition, Complex	reaction proc	ducts or Biological material	
DNEL = Derived	No Effect Level				
PNEC = Predict	ed No Effect Concentration				
dw = dry weight					
fw = fresh water					
mw = marine wa	iter				
or = occasional	release				
Legend Section	າ 8				
T) A (A T :) A (
TWA: Time Wei					
	ne Exposure Limit		*		
+	Sensitiser			Skin designation	
**	Hazard Designation		C:	Carcinogen	
M: Mutagen R: Toxic to reproduction					

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 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