



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

SDS # : 30505

LACTUCA LT 3000

Date of the previous version: 2017-09-21

Revision Date: 2017-10-31

Version 4.03

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

1.1. Product identifier

Product name	LACTUCA LT 3000
Number	HC2
Substance/mixture	Mixture

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

Identified uses	Cutting fluid.
Sector of use	Metal working .

1.3. Details of the supplier of the safety data sheet

Supplier	A - TOTAL UK LIMITED 183 Eversholt St, Kings Cross London, NW1 1BU UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033
	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

For further information, please contact:

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

1.4. Emergency telephone number

Emergency telephone: +44 1235 239670

UK: National Poisons Information Service (NPIS): NHS on 111 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 not classified as dangerous according to Regulation (EC) No. 1272/2008

2.2. Label elements**Labelled according to** REGULATION (EC) No 1272/2008**Signal word**

None

Hazard Statements

None

Precautionary statements

None

Supplemental Hazard Statements

EUH210 - Safety data sheet available on request

EUH208 - Contains 3-iodo-2-propynyl butylcarbamate. May produce an allergic reaction

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

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture**Chemical nature**

Mineral oil of petroleum origin.

Hazardous components

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	GHS Classification
2-(2-butoxyethoxy)ethanol	203-961-6	01-2119475104-44	112-34-5	1-<3	Eye Irrit. 2 (H319)
Distillates (petroleum), solvent-dewaxed light paraffinic	265-159-2	01-2119480132-48	64742-56-9	1-<3	Asp. Tox. 1 (H304)
Sulfonic acids, petroleum, sodium salts	271-781-5	01-2119527859-22	68608-26-4	1-<3	Eye Irrit. 2 (H319)
Alcohols, C16-18(even numbered) and C18 unsaturated, ethoxylated < 2.5 EO	-	01-2119489407-26	68920-66-1	1-<2.5	Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411)
Fatty alcohol polyglycoether	-	no data available	68920-66-1	0.25-<1	Skin Irrit. 2 (H315)

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					Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)
3-iodo-2-propynyl butylcarbamate	259-627-5	no data available	55406-53-6	0.1-<0.25	STOT RE 1 (H372) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Acute Tox. 4 (H302) Acute Tox. 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Chronic M factor=1 Acute 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 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	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse.
Inhalation	Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.
Protection of first-aiders	First aider needs to protect himself. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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

Eye contact	Not classified based on available data.
Skin contact	Not classified based on available data. May produce an allergic reaction.
Inhalation	Not classified based on available data. Inhalation of vapours in high concentration may cause irritation of respiratory system.
Ingestion	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Notes to physician Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂). 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 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. The potential danger appears only after the evaporation of the water in the product, i.e. during fire or after accidental projection of the product on a very hot surface. Combustion products include sulphur oxides (SO₂ and SO₃) and Hydrogen sulphide H₂S. Nitrogen oxides (NO_x). Mercaptans. Sodium oxides.

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

6.2. Environmental precautions

General Information Do not allow material to contaminate ground water system. Prevent entry into waterways, sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up

Methods for containment Dike to collect large liquid spills. If necessary dike the product with dry earth, sand or similar non-combustible materials.

Methods for cleaning up Dispose of contents/container in accordance with local regulation. In case of soil

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contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

6.4. Reference to other sections

Personal protective equipment See Section 8 for more detail.

Waste treatment See section 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling 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.

Prevention of fire and explosion No specific measures identified.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. 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

Technical measures/Storage conditions Keep away from food, drink and animal feedingstuffs. Keep in a banded area. 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. Keep from freezing. Protect from moisture.

Materials to avoid Strong acids. Bases.

7.3. Specific use(s)

Specific use(s) Please refer to Technical Data Sheet for further information.

Section 8: EXPOSURE CONTROLS / 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)
Metalworking fluids:
USA: NIOSH (REL) TWA 0.5 mg/m³

Chemical Name	European Union	The United Kingdom	Ireland
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2-(2-butoxyethoxy)ethanol 112-34-5	TWA 10 ppm TWA 67.5 mg/m ³ STEL 15 ppm STEL 101.2 mg/m ³	STEL 15 ppm STEL 101.2 mg/m ³ TWA 10 ppm TWA 67.5 mg/m ³ ***	TWA 10 ppm TWA 67.5 mg/m ³ STEL 15 ppm STEL 101.2 mg/m ³
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Legend

See section 16

Derived No Effect Level (DNEL)**DNEL Worker (Industrial/Professional)**

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
2-(2-butoxyethoxy)ethanol 112-34-5		101.2 mg/m ³ Inhalation	20 mg/kg bw/day Dermal 67.5 mg/m ³ Inhalation	67.5 mg/m ³ Inhalation
Sulfonic acids, petroleum, sodium salts 68608-26-4			0.66 mg/m ³ Inhalation 3.33 mg/kg bw/day Dermal	
Alcohols, C16-18(even numbered) and C18 unsaturated, ethoxylated < 2.5 EO 68920-66-1			294 mg/m ³ (inhalation) 2080 mg/kg bw/day (dermal)	
Fatty alcohol polyglycoether 68920-66-1			294 mg/m ³ (inhalation) 2080 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-(2-butoxyethoxy)ethanol 112-34-5		50.6 mg/m ³ Inhalation	10 mg/kg bw/day Dermal 34 mg/m ³ Inhalation 1.25 mg/kg bw/day Oral	34 mg/m ³ Inhalation
Sulfonic acids, petroleum, sodium salts 68608-26-4			0.33 mg/m ³ Inhalation 1.667 mg/kg bw/day Dermal 0.8333 mg/kg bw/day Oral	
Alcohols, C16-18(even numbered) and C18 unsaturated, ethoxylated < 2.5 EO 68920-66-1			87 mg/m ³ (inhalation) 1250 mg/kg bw/day (dermal) 25 mg/kg bw/day (oral)	
Fatty alcohol polyglycoether 68920-66-1			87 mg/m ³ (inhalation) 25 mg/kg bw/day (oral) 1250 mg/kg bw/day (oral)	

Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
2-(2-butoxyethoxy)ethanol 112-34-5	1 mg/l fw 0.1 mg/ mw 3.9 mg/l or	4 mg/kg fw dw 0.4 mg/kg mw dw	0.4 mg/kg dw		200 mg/l	56 mg/kg food
Sulfonic acids,	1 mg/l fw	723500000	868700000		100 mg/l	16.667 mg/kg

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petroleum, sodium salts 68608-26-4	1 mg/l mw 10 mg/l or	mg/kg dw fw 723500000 mg/kg dw mw	mg/kg dw			food
Alcohols, C16-18(even numbered) and C18 unsaturated, ethoxylated < 2.5 EO 68920-66-1	0.002000 mg/l fw 0.002000 mg/l mw 0.510000 mg/l or	6.330000 mg/kg dw fw 6.330000 mg/kg dw mw	1 mg/kg dw		10000 mg/l	
Fatty alcohol polyglycoether 68920-66-1	0.002 mg/l fw 0.002 mg/l mw 0.51 mg/l or	6.33 mg/kg sediment dw fw 6.33 mg/kg sediment dw mw	1 mg/kg soil dw		10 g/l	

8.2. Exposure controls

Occupational Exposure Controls

Engineering measures

Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. 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

Protective engineering solutions should be implemented and in use before personal protective equipment is considered. The personal protective equipment (PPE) recommendations apply to the product AS DELIVERED. In case of mixtures or formulations, it is suggested that you contact the relevant PPE suppliers.

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. Warning ! filters have a limited use duration. 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. EN 166.

Skin and body protection

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Type 4/6.

Hand protection

Hydrocarbon-proof gloves. Impermeable butyl rubber gloves. Neoprene 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. 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.

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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
Colour	yellow
Physical state @20°C	liquid
Odour	characteristic
Odour Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	8.5 - 9.5		DIN 51369
Melting point/range		No information available	
Boiling point/boiling range		No information available	
Flash point		Not applicable	
Evaporation rate		No information available	
Flammability Limits in Air			
Upper		No information available	
Lower		No information available	
Vapour pressure		No information available	
Vapour density		No information available	
Relative density	0.885 - 0.905	@ 15 °C	ISO 12185
Density	885 - 905 kg/m ³	@ 15 °C	ISO 12185
Water solubility		soluble	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Viscosity, kinematic	30 - 80 mm ² /s	@ 40 °C	ASTM D 7042
Explosive properties	Not explosive		
Oxidising properties	Not applicable		
Possibility of hazardous reactions	None under normal processing		

9.2. Other information

Freezing point	No information available
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Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

General Information None under normal processing.

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10.2. Chemical stability

Stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat and sparks.

10.5. Incompatible materials

Materials to avoid Strong acids. Bases.

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. Sodium oxides. Nitrogen oxides (NO_x). Mercaptans. Combustion products include sulphur oxides (SO₂ and SO₃) and Hydrogen sulphide H₂S.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effectsAcute toxicity Local effects Product Information

Skin contact	. Not classified based on available data. May produce an allergic reaction.
Eye contact	. Not classified based on available data.
Inhalation	. Not classified based on available data. Inhalation of vapours in high concentration may cause irritation of respiratory system.
Ingestion	. Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
ATEmix (dermal)	51,299.00 mg/kg
ATEmix (inhalation-dust/mist)	97.20 mg/l
ATEmix (inhalation-vapour)	306.50 mg/l

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-(2-butoxyethoxy)ethanol	LD50 5500 mg/kg (Rat)	LD50 2201 mg/kg (Rabbit)	

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Distillates (petroleum), solvent-dewaxed light paraffinic	LD50 > 5000 mg/kg bw (rat - OECD 401)	LD50 > 2000 mg/kg bw (rat - OECD 402) LD50 > 5000 mg/kg bw (rabbit)	LC50 (4h) 5.53 mg/l (rat) LC50 (4h) 2.18 mg/l (rat-aerosol-OECD 403)
Sulfonic acids, petroleum, sodium salts	LD50 > 5000 mg/l (Rat - OECD 401)	LD50 > 5000 mg/kg (Rabbit - OECD 402)	
Alcohols, C16-18(even numbered) and C18 unsaturated, ethoxylated < 2.5 EO	LD50 > 2000 mg/kg bw (rat - OECD 401)	LD50 > 2000 mg/kg (OECD 402) LD50 2000 mg/kg bw (rabbit - OECD 402) LD50 2216 mg/kg bw (rabbit - OECD 402)	
Fatty alcohol polyglycoether	LD50 > 2000 mg/kg bw (rat - OECD 401)	LD50 2000 mg/kg bw (rabbit - OECD 402) LD50 2216 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 1.6 mg/l (rat - aerosol - OECD 403)

Sensitisation

Sensitisation Not classified based on available data. Contains sensitizer(s). May produce an allergic reaction.

Specific effects

Carcinogenicity Not classified based on available data.

Mutagenicity
Germ cell mutagenicity Not classified based on available data.

Reproductive toxicity Not classified based on available data.

Repeated dose toxicity**Target Organ Effects (STOT)**

Target Organ Effects (STOT) Not classified based on available data.

Specific target organ systemic toxicity (single exposure) Not classified based on available data.

Specific target organ toxicity - repeated exposure Not classified based on available data.

Aspiration toxicity Not classified based on available data.

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**

Not classified based on available data.

Acute aquatic toxicity - Product Information

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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
2-(2-butoxyethoxy)ethanol 112-34-5	EC50 (96h) > 100 mg/L Desmodesmus subspicatus	EC50 (48h) > 100 mg/L Daphnia magna EC50 (24h) = 2850 mg/L Daphnia magna	LC50 (96h) = 1300 mg/l (Lepomis macrochirus - static - OECD 203)	
Distillates (petroleum), solvent-dewaxed light paraffinic 64742-56-9		EC50 (48h) > 1000 mg/l (Daphnia magna) LL50 (24h) > 10000 mg/l (Gammarus pulex - OECD 202)	LC50 (96h) > 5000 mg/l (Oncorhynchus mykiss) LL50 (96h) > 100 mg/l (Pimephales promelas - OECD 203)	
Sulfonic acids, petroleum, sodium salts 68608-26-4	EC50 (72h) > 1000 mg/l (Pseudokirchnerella subcapitata - Static)	EC50 (48h) > 1000 mg/l (Daphnia magna - WAF)	LL50 > 10000 mg/l (Cyprinodon variegatus - OECD 203 - WAF)	
Alcohols, C16-18(even numbered) and C18 unsaturated, ethoxylated < 2.5 EO 68920-66-1	EC50 (72 h) > 100 mg/l (Scenedesmus subspicatus)	EL50 (48h) 51 mg/l (Daphnia magna - OECD 202)	LC50 (96h) 108 mg/l (Danio rerio - OECD 203)	
Fatty alcohol polyglycoether 68920-66-1		EL50 (48h) 51 mg/l (Daphnia magna - OECD 202)	LC50 (96h) 108 mg/l (Brachydanio rerio - OECD 203)	
3-iodo-2-propynyl butylcarbamate 55406-53-6	EC50(72h) 0.335 mg/l (Algae)	EC50(48h) 3.25 mg/l (Daphnia magna)	LC50 (96h) 0.13 mg/l (Fish)	

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
Distillates (petroleum), solvent-dewaxed light paraffinic 64742-56-9	NOEL (72h) >= 100 mg/l (Pseudokirchnerella subcapitata - OECD 201)	NOEL (21d) 10 mg/l (Daphnia magna - OECD 211) NOEL (96h) >= 10000 mg/l (Gammarus pulex - OECD 202)	NOEL (96h) >= 100 mg/l (Pimephales promelas - OECD 203)	
Alcohols, C16-18(even numbered) and C18 unsaturated, ethoxylated < 2.5 EO 68920-66-1	EC20 (72h) 0.195 mg/l (Desmodesmus subspicatus) EC20 (72h) 0.0725 mg/l (Desmodesmus subspicatus)	EC20 (21d) 0.0724 mg/l (Daphnia magna) NOEC (21d) 0.0724 mg/l (Daphnia magna)	NOEC (30d) 0.3144 mg/l (Pimephales promelas) NOEC 0.16000 mg/l	
Fatty alcohol polyglycoether 68920-66-1		EL50 (48h) 51 mg/l (Daphnia magna - OECD 202)		

Effects on terrestrial organisms

No information available.

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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
2-(2-butoxyethoxy)ethanol - 112-34-5	0.56
Distillates (petroleum), solvent-dewaxed light paraffinic - 64742-56-9	3.1
Alcohols, C16-18(even numbered) and C18 unsaturated, ethoxylated < 2.5 EO - 68920-66-1	4.6
3-iodo-2-propynyl butylcarbamate - 55406-53-6	2.81

12.4. Mobility in soil**Soil**

Given its physical and chemical characteristics, the product generally shows low soil mobility.

Air

Loss by evaporation is limited.

Water

soluble. Forms an emulsion.

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 CONSIDERATIONS13.1. Waste treatment methods**Waste from residues / unused products**

Should not be released into the environment. Do not empty into drains. Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

EWC Waste Disposal No

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. The following Waste Codes are only suggestions: 12 01

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09.

Other information

Refer to section 8 for safety and protective measures for disposal personnel.

Section 14: TRANSPORT INFORMATION

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

Section 15: REGULATORY INFORMATION

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

European Union

Further information

No information available

15.2. Chemical Safety Assessment**Chemical Safety Assessment** No information available15.3. 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

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

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H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H319 - Causes serious eye irritation
 H331 - Toxic if inhaled
 H335 - May cause respiratory irritation
 H372 - Causes damage to organs through prolonged or repeated exposure
 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
 H412 - Harmful 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
 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
 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	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

Revision Date: 2017-10-31

Revision Note: *** Indicates updated section. & 1.***

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

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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

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