

1N /2017

MANITOU ADDITIF PO	UR FREINS IMMI	ERGES	332941MN
Version 1.0 Revision date 19/	10/2017		Revision date 19/10/20
SECTION 1: Identification of the sub	stance/mixture and of the	company/undertaking	J
1.1. Product identifier			
Product form	: Mixture		
Trade name	: MANITOU ADDITIF POUR FR	EINS IMMERGES	
1.2. Relevant identified uses of the subs	tance or mixture and uses advise	ed against	
1.2.1. Relevant identified uses			
Main use category	: Professional use, Consumer use	e	
Use of the substance/mixture	: Additive		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety of MANITOU	<u>data sheet</u>		
430, rue de l'Aubinière			
44158 ANCENIS Cedex - France T +33 (0)2 40 09 10 11			
contact_FDS_MSDS@manitou-group.com			
1.4. Emergency telephone number			
Country Organisation/Company	Address	Emergency number	Comment
United Kingdom National Poisons Information Service (Cardiff Centre)	Penarth CF64 2XX Cardiff	0344 892 0111	
Gwenwyn Ward, Llandough Hospital			
SECTION 2: Hazards identification			
2.1. Classification of the substance or m	nixture		
Classification according to Regulation (EC) N	io. 1272/2008 [CLP]		
Skin Sens. 1 H317			
Aquatic Acute 1 H400			
Aquatic Chronic 1 H410			
Full text of hazard classes and H-statements : se	e section 16		
Advance physics chemical human health and	an ironmental offecto		
Adverse physicochemical, human health and No additional information available	environmental enects		
2.2. Label elements			
Labelling according to Regulation (EC) No. 12	272/2008 [CL P]		
Labeling according to Regulation (20) No. 1			
Hazard pictograms (CLP)			
	¥.		
	•		
Signal word (CLP)	GHS07 GHS09 : Warning		
Hazardous ingredients	: Reaction products of bis(4-met	hylpentan-2-yl)dithiophosphor	ric acid with phosphorus oxide,
	propylene oxide and amines, C Reaction products of 1,3,4-thia		amine; Phenol, heptyl derivatives;
	derivatives		aldenyde and phenol, heptyr
Hazard statements (CLP)	: H317 - May cause an allergic s		
Precautionary statements (CLP)	H410 - Very toxic to aquatic life : P102 - Keep out of reach of chi		
	P272 - Contaminated work clot	hing should not be allowed ou	ut of the workplace.
	P273 - Avoid release to the env P280 - Wear protective gloves/		ction/face protection
	P321 - Specific treatment (see	supplemental first aid instruct	tion on this label)
	P333+P313 - If skin irritation or	rasn occurs: Get medical ad	vice/attention.



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P362+P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Other hazards 2.3.

No additional information available

SECTION 3: Composition/information on ingredients

Substances <u>3.1.</u>

Not applicable

<u>3.2</u>. **Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	(EC-No.) 931-384-6 (REACH-no) 01-2119493620-38	10 - 20	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Oleic amine	(CAS-No.) 112-90-3 (EC-No.) 204-015-5	2.5 - 10	Skin Corr. 1B, H314 Eye Dam. 1, H314 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) Acute Tox. 4 (Oral), H302 Asp. Tox. 1, H304
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivatives	(EC-No.) 939-460-0 (REACH-no) 01-2119971727-23	0.1 - 2.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Phenol, heptyl derivatives substance listed as REACH Candidate (4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof])	(CAS-No.) 72624-02-3 (EC-No.) 276-743-1 (REACH-no) 01-2119972228-30	< 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Specific concentration limits: Name Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines,	Product identifier (EC-No.) 931-384-6 (REACH-no) 01-2119493620-38		centration limits Eye Dam. 1, H318

acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures			
First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.		
First-aid measures after inhalation	: In the event of faintness in consequence of exposure, immediately transport the victim to the fresh air. Obtain medical attention if breathing difficulty persists.		
First-aid measures after skin contact	: Wash contaminated clothing before reuse. Wash with plenty of water/ Seek medical attention if ill effect or irritation develops.		
First-aid measures after eye contact	: Contact ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye contact, immediately rinse with clean water for 10-15 minutes.		
First-aid measures after ingestion	: Do not induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious). Immediately call a POISON CENTER/doctor. Never give anything by mouth to an unconscious person.		
4.2. Most important symptoms and effe	4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after inhalation	: Symptoms may include dizziness, headache, nausea and loss of coordination.		
Symptoms/effects after skin contact	: Prolonged or repeated contact with the skin may cause dermatitis. Skin rash/inflammation. Redness. Itching.		
Symptoms/effects after eye contact	: May cause slight irritation. Redness. Pain.		



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Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Dry powder. Foam. Sand. AFFF foam. Water spray. Carbon dioxide.	
Unsuitable extinguishing media	: Do not use water jet.	
5.2. Special hazards arising from the s	ubstance or mixture	
Reactivity in case of fire	: On burning: release of (highly) toxic gases/vapours. Carbon oxides (CO, CO2).	
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment. Exercise caution when fighting any chemical fire.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.	

SECH	ECTION 6: Accidental release measures		
<u>6.1.</u>	1. Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
Protectiv	ve equipment	:	Concerning personal protective equipment to use, see section 8. Wear suitable protective clothing and gloves.
Emerge	ency procedures	:	Evacuate unnecessary personnel. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Provide adequate ventilation.
6.1.2.	For emergency responders		

0.1.2. For emergency responders	
Protective equipment	: Wear suitable protective clothing and gloves. Avoid breathing Aerosols, Vapours. Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area. Clean up any spills as soon as possible, using an absorbent material to collect it. Stop leak if safe to do so.

Environmental precautions 6.2.

SECTION 6. Assidental release measures

Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up <u>6.3</u>

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Collect all waste in suitable and labelled containers and dispose according to local legislation.

<u>6.4.</u> Reference to other sections

Concerning personal protective equipment to use, see section 8. For disposal of residues refer to section 13 : Disposal considerations" ".

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Additional hazards when processed	: Provide proper grounding.		
Precautions for safe handling	Provide good ventilation in process area to prevent formation of vapour. Keep away from sources of ignition - No smoking. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke in areas where product is used.		
Hygiene measures	: Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with skin, eyes and clothing.		
7.2. Conditions for safe storage, including	7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep away from sources of ignition - No smoking. Store in original container. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep container tightly closed. Keep container closed when not in use.		
Heat and ignition sources	: No flames, no sparks. Eliminate all sources of ignition.		
Information on mixed storage	: Oxidation agents.		
Storage area	: Store away from heat. Floors should be impervious, resistant to liquids and easy to clean.		
Special rules on packaging	: Keep only in original container.		



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<u>7.3.</u> Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters <u>8.1</u>.

No additional information available

8.2. **Exposure controls**

Personal protective equipment

: Avoid all unnecessary exposure.

Materials for protective clothing:

Separate working clothes from town clothes. Launder separately

Hand protection:

Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Time of penetration is to be checked with the glove producer

Eye protection:

Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Avoid the formation of mists in the atmosphere. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. respirator with combination filter for vapour/particles

Other information

: Provide local exhaust or general room ventilation to minimize mist and/or vapour concentrations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and c	hemical properties
Physical state	: Liquid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: > 200 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: 44.2 mm²/s (40°C)
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

All heat sources, including direct sunlight. Sparks. Open flame.

10.5. Incompatible materials

Strong oxidizers. Strong acids. Strong bases.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

Reaction products of bis(4-m	nethylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl
(branched)	
I D50 oral rat	2000 ma/kg (OECD 401 method)

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity - Description	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
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Viscosity, kinematic	44.2 mm²/s (40°C)

SECTION 12: Ecological information

12.1. Toxicity

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

LC50 fish 1	24 mg/l (Oncornynchus mykiss, 96n) (OECD 203 method)
LC50 fish 2	8.5 mg/l (Pimephales promelas, 96h) (OECD 203 method)
EC50 Daphnia 1	91.4 mg/l (Daphnia magna, 48h) (OECD 202 method)
EC50 72h algae (1)	6.4 mg/l (Pseudokirchnerella subcapitata, 96h) (OECD 201 method)
NOEC chronic crustacea	0.12 mg/l (Daphnia magna, 21d) (OECD 211 method)
NOEC chronic algae	1.7 mg/l (Pseudokirchnerella subcapitata, 96h) (OECD 201 method)
Reaction products of 1,3,4-thiadiazolidine-2,5 LC50 fish 1	dithione, formaldehyde and phenol, heptyl derivatives 40 mg/l
EC30 IISH I	+6 mg/i

12.2. Persistence and degradability

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl
(branched)Biodegradation3.6 % Sturm (28 d) [ASTM D-5864-95]Oleic amine (112-90-3)
Biodegradation66 % Sturm (28d)

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Phenol, heptyl derivatives (72624-02-3) Biodegradation) 25.4 % Sturm (28d)	
Reaction products of 1,3,4-thiadiazolic Biodegradation	dine-2,5-dithione, formaldehyde and phenol, heptyl derivatives 17.4 % (28d) [Sturm]	
12.3. Bioaccumulative potential		
Reaction products of bis(4-methylpent (branched)	tan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-all	kyl
Log Pow	< 0.3 (40°C) (OECD 117 method)	
Oleic amine (112-90-3) Bioconcentration factor (BCF REACH) Log Kow	2.7 (0,1 d) 7.5	
Phenol, heptyl derivatives (72624-02-3 Bioconcentration factor (BCF REACH)) 2.7 (0,1 d)	
Reaction products of 1,3,4-thiadiazolic Log Kow	dine-2,5-dithione, formaldehyde and phenol, heptyl derivatives 9.4 (0.1d) [water/octanol]	
<u>12.4.</u> Mobility in soil No additional information available		
12.5. Results of PBT and vPvB ass	sessment	
Component Phenol, heptyl derivatives (72624-02-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
12.6. Other adverse effects		
Additional information	: Do not discharge the product into the environment. Do not flush into surface water or sew system	er
SECTION 13: Disposal conside	erations	
42.4 Wests treatment methods		

Waste treatment methods 13.1.

Product/Packaging disposal recommendations

: Do not discharge into drains or the environment. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID		
14.1. UN number	•		•			
3082	3082	3082	3082	3082		
14.2. UN proper shipping name						
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
Transport document descr	iption_					
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction products of bis(4-methylpentan-2- yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched); Oleic amine ; Phenol, heptyl derivatives ; Reaction products of bis(4- methylpentan-2- yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched); Oleic amine ; Reaction products of 1.3.4-thiadiazolidine-2.5-	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III		

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ADR	IMDG	IATA	ADN	RID
dithione, formaldehyde and phenol, heptyl derivatives ; Phenol, heptyl derivatives), 9, III, (E)				
14.3. Transport hazard class(es)				
9	9	9	9	9
14.4. Packing group				
III	- 111		111	111
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 601, 375
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	90 3082
Tunnel restriction code (ADR)	: E
- Transport by sea	
Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F



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Revision date 19/10/2017 Version 1.0 Stowage category (IMDG) : A - Air transport PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y964 PCA limited quantity max net quantity (IATA) : 30kgG PCA packing instructions (IATA) : 964 PCA max net quantity (IATA) : 450L CAO packing instructions (IATA) : 964 CAO max net quantity (IATA) : 450L Special provisions (IATA) : A97, A158, A197 ERG code (IATA) : 9L - Inland waterway transport Classification code (ADN) • M6 Special provisions (ADN) : 274, 335, 375, 601 Limited quantities (ADN) : 5 L Excepted quantities (ADN) : F1 Carriage permitted (ADN) : T : PP Equipment required (ADN) Number of blue cones/lights (ADN) : 0 - Rail transport Classification code (RID) : M6 Special provisions (RID) : 274, 335, 375, 601 Limited quantities (RID) : 5L : E1 Excepted quantities (RID) Packing instructions (RID) : P001, IBC03, LP01, R001 Special packing provisions (RID) : PP1 Mixed packing provisions (RID) · MP19 Portable tank and bulk container instructions : T4 (RID) Portable tank and bulk container special : TP1, TP29 provisions (RID) Tank codes for RID tanks (RID) : LGBV Transport category (RID) : 3 Special provisions for carriage - Packages : W12 (RID) Special provisions for carriage - Loading, : CW13, CW31 unloading and handling (RID) Colis express (express parcels) (RID) : CE8 Hazard identification number (RID) · 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration $\ge 0.1\%$ or with a lower specific limit: 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] (EC 276-743-1, CAS 72624-02-3)

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

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<u>15.</u>2. Chemical safety assessment

No additional information available

Full text of H- and EUH-statements:

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Training advice

SECTION 16: Other information

: Not to be used for any purpose other than the one the product was designed for.

Acute Tox. 4 (Oral)	Acute toxicity (oral	I), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2		
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3		
Asp. Tox. 1	Aspiration hazard, Category 1		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Skin Corr. 1B	Skin corrosion/irritation, Category 1B		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1	Skin sensitisation, Category 1		
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
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.		
H373	May cause 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.		
Skin Sens. 1	H317	Calculation method	
Aquatic Acute 1	H400	Calculation method	
Aquatic Chronic 1	H410	Calculation method	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product