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# ACTELLIC 50 EC

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name	:	ACTELLIC 50 EC
Design code	:	A5832C
Product Registration Number	:	MAPP 19325
Unique Formula Identifier (UFI)	:	1P3P-N2SM-G007-EWTU

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

Use of the Sub- stance/Mixture	: Insecticide	
Recommended restrictions on use	: professional use	

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

Company	:	Syngenta UK Limited CPC4, Capital Park Fulbourn, Cambridge CB21 5XE United Kingdom
Telephone	:	+44 (0) 1223 883400
Telefax	:	+44 (0) 1223 882195
E-mail address of person responsible for the SDS	:	product.technical_enquiries@syngenta.com

### **1.4 Emergency telephone number**

Emergency telephone num- : +44 1484 538444 ber

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Specific target organ toxicity - single ex-	H370: Causes damage to organs.

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posure, Category 1, Central nervous system

Specific target organ toxicity - single exposure, Category 3, Respiratory system Specific target organ toxicity - single exposure, Category 3, Central nervous system

Specific target organ toxicity - repeated exposure, Category 1, Nervous system Aspiration hazard, Category 1

Short-term (acute) aquatic hazard, Category 1

Long-term (chronic) aquatic hazard, Category 1

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H372: Causes damage to organs through prolonged or repeated exposure. H304: May be fatal if swallowed and enters airways.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :	
Signal word :	Danger
Hazard statements :	<ul> <li>H226 Flammable liquid and vapour.</li> <li>H302 Harmful if swallowed.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H351 Suspected of causing cancer.</li> <li>H370 Causes damage to organs (Central nervous system).</li> <li>H372 Causes damage to organs (Nervous system) through prolonged or repeated exposure.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>
Supplemental Hazard : Statements	EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary statements :	<ul> <li>Prevention:</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P260 Do not breathe mist or vapours.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.</li> <li>Response:</li> <li>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</li> </ul>

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P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P391 Collect spillage.

## Disposal:

P501 Dispose of contents/container to a licensed hazardouswaste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Hazardous components which must be listed on the label:

pirimiphos-methyl (ISO) Hydrocarbons, C9, Aromatics calcium dodecylbenzenesulphonate 4-methylpentan-2-one

## **Additional Labelling**

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
pirimiphos-methyl (ISO)	29232-93-7 249-528-5 015-134-00-5	Acute Tox. 4; H302 STOT SE 1; H370 (Central nervous system) STOT RE 1; H372 (Nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1;	>= 30 - < 50



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		H410	
		M-Factor (Acute aquatic toxicity): 1,000 M-Factor (Chronic aquatic toxicity): 1,000	
Hydrocarbons, C9, Aromatics	128601-23-0	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory sys- tem) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 30 - < 50
calcium dodecylbenzenesulphonate	26264-06-2 247-557-8	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 10
4-methylpentan-2-one	108-10-1 203-550-1 606-004-00-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H335 (Respiratory sys- tem) STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
2-methylpropan-1-ol	78-83-1 201-148-0 603-108-00-1	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory sys- tem) STOT SE 3; H336 (Central nervous system)	>= 1 - < 3

For explanation of abbreviations see section 16.

:

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General advice

Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.



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lf inha	aled	If breathing tion. Keep patien	ctim to fresh air. is irregular or stopped, administer artificial respira t warm and at rest. cian or poison control centre immediately.			
In case of skin contact		Wash off im If skin irritati	Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.			
In case of eye contact		for at least 1 Remove cor	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.			
If swallowed		container or	If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.			
.2 Most i	mportant symptoms	and effects, both	acute and delayed			
Symptoms			roduces effects associated with anticholinesteras h may include:			
		Aspiration m	nay cause pulmonary oedema and pneumonitis.			
.3 Indica	tion of any immedia	te medical attentio	n and special treatment needed			
Treatr	ment	linesterase a Administer a Specific anti	king venous blood for determination of blood cho activity (use heparin tube). atropine sulphate as antidote. idotes are oximes (e.g. Pralidoxime) or Toxogoni ce vomiting: contains petroleum distillates and/or lvents.			

5.1 Extinguishing media		
Suitable extinguishing mee	dia :	Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide. Extinguishing media - large fires Alcohol-resistant foam
Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.

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### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- fighting	:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous prod- ucts of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Flash back possible over considerable distance.
5.3 Advice for firefighters Special protective equipment for firefighters	•	Wear full protective clothing and self-contained breathing ap- paratus.
Further information	:	Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.
	•	courses.

## **SECTION 6:** Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	<ul> <li>Refer to protective measures listed in sections 7 and 8.</li> <li>Keep people away from and upwind of spill/leak.</li> <li>Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.</li> <li>Remove all sources of ignition.</li> </ul>
	Pay attention to flashback.

#### 6.2 Environmental precautions

Environmental precautions	:	Prevent further leakage or spillage if safe to do so.
		Do not flush into surface water or sanitary sewer system.
		If the product contaminates rivers and lakes or drains inform
		respective authorities.

## 6.3 Methods and material for containment and cleaning up

	Methods for cleaning up	:	Contain spillage, and then collect with non-combustible ab- sorbent material, (e.g. sand, earth, diatomaceous earth, ver- miculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.
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## 6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

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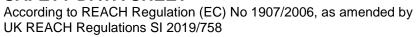
Version 2.2	Revision Date: 17.10.2023	SDS Number: S145121155	Date of last issue: 04.10.2023 Date of first issue: 24.03.2022
Advic	e on safe handling	When using Use only in a Take precau	t with skin and eyes. do not eat, drink or smoke. n area containing flame proof equipment. tionary measures against static discharges. protection see section 8.
7.2 Condi	tions for safe storage,	including any inc	compatibilities
	irements for storage and containers	ventilated pla from combus	ers tightly closed in a dry, cool and well- ace. Keep out of the reach of children. Keep away tible material. Keep in an area equipped with eep away from food, drink and animal feed- smoking.
	er information on stor- tability		d chemically stable for at least 2 years when original unopened sales container at ambient s.
7.3 Specif	fic end use(s)		
Speci	ific use(s)		nd safe use of this product, please refer to the ditions laid down on the product label.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
pirimiphos-methyl (ISO)	29232-93-7	TWA	3 mg/m3 (Skin)	Syngenta
Hydrocarbons, C9,	128601-23-	TWA	19 ppm	Supplier
Aromatics	0		100 mg/m3	
4-methylpentan-2- one	108-10-1	TWA	50 ppm 208 mg/m3	GB EH40
	Further information: Can be absorbed through the skin. The assigned sub- stances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
	· · · · ·	STEL	100 ppm	GB EH40
			416 mg/m3	
	Further information: Can be absorbed through the skin. The assigned sub- stances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	20 ppm 83 mg/m3	2000/39/EC
	Further inform	nation: Indicative		
		STEL	50 ppm 208 mg/m3	2000/39/EC
	Further information: Indicative			
2-methylpropan-1- ol	78-83-1	TWA	50 ppm 154 mg/m3	GB EH40
		STEL	75 ppm	GB EH40





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		23	1 mg/m3	
<b>Biological occupation</b>	al exposure lim	its		
Substance name	CAS-No.	Control paramete	ers Sampling time	Basis
4-methylpentan-2-one	108-10-1	4-methylpentan-2 one: 20 micromo per litre (Urine)	2- After shift	GB EH40 BAT
Derived No Effect Lev				
Substance name	End Use	Exposure routes	Potential health ef- fects	Value
pirimiphos-methyl (ISO)	Workers	Inhalation	Long-term systemic effects	0.027 mg/m3
	Workers	Dermal	Long-term systemic effects	0.046 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0.005 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.017 mg/kg
	Consumers	Oral	Long-term systemic effects	0.002 mg/kg
Hydrocarbons, C9, Aromatics	Workers	Inhalation	Long-term systemic effects	150 mg/m3
	Workers	Dermal	Long-term systemic effects	25 mg/kg
	Consumers	Inhalation	Long-term systemic effects	32 mg/m3
	Consumers	Dermal	Long-term systemic effects	11 mg/kg
	Consumers	Oral	Long-term systemic effects	11 mg/kg
castor oil, ethoxylated	Workers	Inhalation	Long-term systemic effects	16.4 mg/m3
	Workers	Dermal	Long-term systemic effects	4.67 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2.9 mg/m3
	Consumers	Dermal	Long-term systemic effects	1.67 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1.67 mg/kg bw/day
calcium dodecylben- zenesulphonate	Workers	Dermal	Long-term systemic effects	1.7 mg/kg
	Consumers	Dermal	Acute systemic ef- fects	85 mg/kg
	Consumers	Oral	Long-term local ef- fects	89 mg/kg
4-methylpentan-2-one	Workers	Inhalation	Long-term systemic effects	83 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	208 mg/m3



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	Workers	Inhalation	Long-term local ef- fects	83 mg/m3
	Workers	Inhalation	Acute local effects	208 mg/m3
	Workers	Dermal	Long-term systemic effects	11.8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	14.7 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	155.2 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	14.7 mg/m3
	Consumers	Inhalation	Acute local effects	155.2 mg/m3
	Consumers	Dermal	Long-term systemic effects	4.2 mg/kg
	Consumers	Oral	Long-term systemic effects	4.2 mg/kg
2-methylpropan-1-ol	Workers	Inhalation	Long-term systemic effects, Long-term local effects	310 mg/m3
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	55 mg/m3
	Consumers	Oral	Long-term systemic effects, Long-term local effects	25 mg/kg

## Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
pirimiphos-methyl (ISO)	Fresh water	0 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	4.5 mg/l
	Fresh water sediment	0.001 mg/kg
	Marine sediment	0 mg/kg
	Soil	0.419 mg/kg
	Secondary poisoning	1.33 mg/kg
castor oil, ethoxylated	Fresh water sediment	0.0129 mg/kg dry weight (d.w.)
	Marine sediment	0.00129 mg/kg dry weight (d.w.)
	Soil	0.00258 mg/kg dry weight (d.w.)
calcium dodecylbenzenesulpho- nate	Fresh water	0.023 mg/l
	Marine water	0.0023 mg/l
	Intermittent use/release	0.01 mg/l
	Fresh water sediment	0.174 mg/kg
	Marine sediment	0.0174 mg/kg
	Sewage treatment plant	3 mg/kg
	Soil	0.62 mg/kg
4-methylpentan-2-one	Fresh water	0.6 mg/l
	Marine water	0.06 mg/l
	Freshwater - intermittent	1.5 mg/l





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	Sewage treatment plant	27.5 mg/l
	Fresh water sediment	8.27 mg/kg
	Marine sediment	0.83 mg/kg
	Soil	1.3 mg/kg
2-methylpropan-1-ol	Fresh water	0.4 mg/l
	Sewage treatment plant	10 mg/l
	Soil	0.0699 mg/kg
	Marine sediment	0.152 mg/kg
	Fresh water sediment	1.52 mg/kg
	Marine water	0.04 mg/l

### 8.2 Exposure controls

#### Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

## Personal protective equipment

Eye/face protection	:	Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Tightly fitting safety goggles Face-shield
Hand protection		
Material Break through time Glove thickness	:	Nitrile rubber > 480 min 0.5 mm
Remarks Skin and body protection	:	Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. 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 condi- tions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific work-place. Remove and wash contaminated clothing before re-use. Wear as appropriate: Impervious clothing
Respiratory protection	:	When workers are facing concentrations above the exposure

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Protec	ctive measures	Suitable respir Respirator with The filter class imum expected (gas/vapour/ac dling the produ contained brea : The use of tec over the use o	a use appropriate certified respirators. atory equipment: a half face mask for the respirator must be suitable for the max- d contaminant concentration erosol/particulates) that may arise when han- uct. If this concentration is exceeded, self- athing apparatus must be used. hnical measures should always have priority f personal protective equipment. g personal protective equipment, seek appro- onal advice.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	liquid, clear light yellow to brown aromatic No data available
рН	:	4 - 8 Concentration: 1 %w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	46 °C Method: Pensky-Martens closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	1.02 g/cm3 (25 °C)
Solubility(ies) Solubility in other solvents	:	No data available
Partition coefficient: n-	:	No data available

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octanol/water Auto-ignition temperature Decomposition temperature Viscosity Viscosity, dynamic		::			
				8.08 mPa.s (20 °	°C)
	Visco	osity, kinematic	:	No data availabl	e
	Explosiv	ve properties	:	Not explosive	
	Oxidizin	g properties	:	The substance of	r mixture is not classified as oxidizing.
9.2		formation tension size	:	31.5 mN/m, 20 ° No data availabl	
	Particle	SIZE	•	No data availabl	9

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

None reasonably foreseeable.

#### 10.2 Chemical stability

Stable under normal 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 : No decomposition if used as directed.

## 10.5 Incompatible materials

Materials to avoid : None known.

## **10.6 Hazardous decomposition products**

Hazardous decomposition : No hazardous decomposition products are known. products

## **SECTION 11: Toxicological information**

## **11.1 Information on toxicological effects**

Information on likely routes of : Ingestion



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ext	oosure		Inhalation Skin contact Eye contact	
Ac	ute toxicity			
Pro	oduct:			
Ac	ute oral toxicity	:		e): > 300 - 2,000 mg/kg component/mixture is moderately toxic after
Ac	ute inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h vapour
Ac	ute dermal toxicity	:		and female): > 2,000 mg/kg substance or mixture has no acute dermal
<u>Co</u>	mponents:			
pir	imiphos-methyl (ISO):			
Ac	ute oral toxicity	:	LD50 (Rat, male a	and female): 1,414 mg/kg
				mate: 1,414 mg/kg kicity estimate according to Regulation (EC)
Ac	ute inhalation toxicity	:		and female): > 5.04 mg/l
			Exposure time: 4 Test atmosphere: Assessment: The tion toxicity	
Ac	ute dermal toxicity	:		and female): > 2,000 mg/kg substance or mixture has no acute dermal
Ну	drocarbons, C9, Aromati	ics:		
Ac	ute oral toxicity	:	LD50 (Rat, female	e): 3,492 mg/kg
4-r	nethylpentan-2-one:			
Ac	ute oral toxicity	:	LD50 (Rat): 2,080 Method: OECD T	
Ac	ute inhalation toxicity	:	Assessment: The short term inhalat	component/mixture is moderately toxic after ion.
2-r	nethylpropan-1-ol:			
	ute oral toxicity	:	LD50 (Rat): 2,830	) - 3,350 mg/kg



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	Acute inh	alation toxicity	:	LC50 (Rat): > 24. Exposure time: 4	
				Test atmosphere:	vapour
				Assessment: The tion toxicity	substance or mixture has no acute inhala-
	Acute der	mal toxicity	:	LD50 (Rabbit): > 3	2,000 - 2,460 mg/kg
	Skin corr	osion/irritation			
	Product:				
	Species		:	Rabbit	
	Assessme Result	ent	:	Repeated exposu	re does not cause skin dryness or cracking.
	Compone	ents:			
		os-methyl (ISO):			
	Species Result		:	Rabbit No skin irritation	
	Result		•	No skin intation	
	Hydroca	rbons, C9, Aromati	cs:		
	Result		:	Repeated exposu	rre may cause skin dryness or cracking.
	Species		:	Rabbit	
	Result		:	Mild skin irritation	
	calcium o	dodecylbenzenesul	pho	onate:	
	Result	•	:	Irritating to skin.	
	2-methyl Result	propan-1-ol:		Irritating to akin	
	Result		:	Irritating to skin.	
	Serious e	eye damage/eye irri	itati	on	
	Product:				
	Species		:	Rabbit	
	Result		÷	Risk of serious da	amage to eyes.
	Compone	ents:			
	pirimipho	os-methyl (ISO):			
	Species		:	Rabbit	
	Result		:	No eye irritation	
	calcium o	dodecylbenzenesul	pho	onate:	
	Result		:	Irreversible effect	s on the eye



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	4-meth	ylpentan-2-one:			
	Specie		:	Rabbit	
	Result		:	Irritation to eyes,	reversing within 21 days
:	2-meth	ylpropan-1-ol:			
l	Result		:	Risk of serious da	amage to eyes.
ļ	Respir	atory or skin sensitis	satic	on	
<u> </u>	Produc	<u>ct:</u>			
	Test Ty		:	Buehler Test	
	Specie Result	S	:	Guinea pig May cause sensit	isation by skin contact.
1	Result		•	May baube benon	
<u>(</u>	Compo	onents:			
I	pirimip	ohos-methyl (ISO):			
	Specie	S	:	Guinea pig	
I	Result		÷	Did not cause ser	nsitisation on laboratory animals.
:	2-meth	ylpropan-1-ol:			
	Specie		:	Guinea pig	
	Result		:		nsitisation on laboratory animals.
	Remar	KS	:	stances.	is based on data obtained from similar sub-
(	Germ o	cell mutagenicity			
(	Compo	onents:			
1	pirimir	ohos-methyl (ISO):			
			:	Animal testing did	d not show any mutagenic effects.
	sessme	<b>u</b> ,		Ū	
(	Carcin	ogenicity			
<u>(</u>	Compo	onents:			
I	pirimip	ohos-methyl (ISO):			
	Carcino ment	ogenicity - Assess-	:	No evidence of ca	arcinogenicity in animal studies.
	4-meth	ylpentan-2-one:			
	Carcino ment	ogenicity - Assess-	:	Limited evidence	of carcinogenicity in animal studies

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Repro	oductive toxicity		
<u>Comp</u>	oonents:		
pirimi	phos-methyl (ISO):		
Repro sessm	ductive toxicity - As- nent	: No toxicity to	reproduction
STOT	- single exposure		
Comp	oonents:		
pirimi	phos-methyl (ISO):		
	t Organs sment		us system e or mixture is classified as specific target orga e exposure, category 1.
		toxicant, singi	e exposure, category 1.
-	ocarbons, C9, Aroma		
Asses	sment	toxicant, single The substance	e or mixture is classified as specific target orga e exposure, category 3 with narcotic effects., e or mixture is classified as specific target orga e exposure, category 3 with respiratory tract
4-met	hylpentan-2-one:		
Asses	sment		e or mixture is classified as specific target orga e exposure, category 3 with narcotic effects.
2-met	hylpropan-1-ol:		
Asses	sment	toxicant, single irritation., The	e or mixture is classified as specific target orga e exposure, category 3 with respiratory tract substance or mixture is classified as specific oxicant, single exposure, category 3 with narce
STOT	- repeated exposure		
Comp	oonents:		
pirimi	phos-methyl (ISO):		
Asses	sment		e or mixture is not classified as specific target t, repeated exposure.
Aspir	ation toxicity		
Comp	oonents:		

May be fatal if swallowed and enters airways.

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## 2-methylpropan-1-ol:

May be harmful if swallowed and enters airways.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

<u>Product:</u> Toxicity to fish	:	LC50 (Cyprinus carpio (Carp)): 6.2 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.00048 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 8.27 mg/l Exposure time: 72 h
		NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.22 mg/l End point: Growth rate Exposure time: 72 h
Components:		
pirimiphos-methyl (ISO):		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.404 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.000314 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 3.38 mg/l Exposure time: 72 h
		NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.3 mg/l End point: Growth rate Exposure time: 72 h
M-Factor (Acute aquatic tox- icity)	:	1,000
Toxicity to microorganisms	:	IC50 (Pseudomonas putida): > 4.5 mg/l Exposure time: 6 h
Toxicity to fish (Chronic tox- icity)	:	NOEC: < 0.025 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout)

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	y to daphnia and other invertebrates (Chron- ity)	:	NOEC: 0.00005 m Exposure time: 21 Species: Daphnia	
M-Fact toxicity	or (Chronic aquatic )	:	1,000	
Hydro	carbons, C9, Aromatic	s:		
Toxicit	y to fish	:	LL50 (Oncorhynch Exposure time: 96	nus mykiss (rainbow trout)): 9.2 mg/l 5 h
	y to daphnia and other invertebrates	:	EL50 (Daphnia ma Exposure time: 48	agna (Water flea)): 3.2 mg/l 3 h
Toxicit plants	y to algae/aquatic	:	ErC50 (Raphidoce mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): 2.9 ? h
			NOELR (Raphidoo 1.0 mg/l End point: Growth Exposure time: 72	
Toxicity	y to fish (Chronic tox-	:	NOELR: 1.228 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout)	
	y to daphnia and other invertebrates (Chron- ity)	:	NOELR: 2.144 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)	
Ecoto	kicology Assessment			
	c aquatic toxicity	:	Toxic to aquatic lif	e with long lasting effects.
calciu	m dodecylbenzenesul	phc	onate:	
Ecoto	cicology Assessment			
Chroni	c aquatic toxicity	:	Harmful to aquation	c life with long lasting effects.
2-meth	ylpropan-1-ol:			
	y to fish	:	: LC50 (Pimephales promelas (fathead minnow)): 1,430 mg/l Exposure time: 96 h	
	y to daphnia and other invertebrates	:	: EC50 (Daphnia pulex (Water flea)): 1,100 mg/l Exposure time: 48 h	
Toxicit plants	y to algae/aquatic	:	EC50 (Raphidocelis subcapitata (freshwater green alga)): 1,799 mg/l Exposure time: 72 h	
Toxicit	y to daphnia and other	:	NOEC: 20 mg/l	

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aquatic invertebrates (Chron- ic toxicity)			Exposure time: 21 d Species: Daphnia magna (Water flea)			
12.2 Pers	istence and degradabi	lity				
<u>Com</u>	ponents:					
<b>pirimiphos-methyl (ISO):</b> Stability in water :			Degradation half life: 4 - 6 d Remarks: Product is not persistent.			
•	<b>ocarbons, C9, Aromati</b> egradability		lily biodegradable.			
	<b>thylpropan-1-ol:</b> egradability	: Result: Read	dily biodegradable.			
12.3 Bioa	ccumulative potential					
<u>Com</u>	ponents:					
-	hiphos-methyl (ISO): accumulation	: Remarks: Hi	gh bioaccumulation potential.			
	tion coefficient: n- nol/water	: log Pow: 3.9 pH: 4	(20 °C)			
		log Pow: 4.2 pH: 5 - 7	(20 °C)			
12.4 Mob	ility in soil					
<u>Com</u>	ponents:					
Distri ment	hiphos-methyl (ISO): bution among environ- al compartments lity in soil	<ul> <li>Remarks: Low mobility in soil.</li> <li>Dissipation time: 8.3 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.</li> </ul>				
12.5 Resi	ults of PBT and vPvB a	ssessment				
<u>Prod</u> Asse	uct: ssment	to be either	nce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of per.			

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	Compo	onents:			
	pirimip	phos-methyl (ISO):			
	Assess	sment	:	This substance is not considered to be persistent, bioaccun lating and toxic (PBT) This substance is not considered to very persistent and very bioaccumulating (vPvB).	
	4-meth	ylpentan-2-one:			
	Assess		:	: This substance is not considered to be persistent, bioacc lating and toxic (PBT) This substance is not considered very persistent and very bioaccumulating (vPvB).	
	2-meth	ylpropan-1-ol:			
	Assess		:	: This substance is not considered to be persistent, bi lating and toxic (PBT) This substance is not considered very persistent and very bioaccumulating (vPvB).	
12.6	6 Other	adverse effects			
	Produc	<u>ct:</u>			
	Endocr tial	ine disrupting poten-	ered to have endocrine disrupting prope REACH Article 57(f) or Commission Dele		r(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product	<ul> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> <li>Do not dispose of waste into sewer.</li> <li>Where possible recycling is preferred to disposal or incineration.</li> <li>If recycling is not practicable, dispose of in compliance with local regulations.</li> </ul>
Contaminated packaging	<ul> <li>Empty remaining contents. Triple rinse containers.</li> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>Do not re-use empty containers.</li> </ul>

## **SECTION 14: Transport information**

## 14.1 UN number

: UN 1993

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	RID		:	UN 1993	
	IMDG		:	UN 1993	
	ΙΑΤΑ		:	UN 1993	
14.2	UN pro	oper shipping name			
	ADR		:		QUID, N.O.S. JTYL KETONE, SOLVENT NAPHTHA)
	RID		:	FLAMMABLE LIC (METHYL ISOBL	QUID, N.O.S. JTYL KETONE, SOLVENT NAPHTHA)
	IMDG		:	FLAMMABLE LIC (METHYL ISOBL	QUID, N.O.S. JTYL KETONE, SOLVENT NAPHTHA)
	ΙΑΤΑ		:	Flammable liquid (METHYL ISOBL	l, n.o.s. JTYL KETONE, SOLVENT NAPHTHA)
14.3	Transp	oort hazard class(es)			
				Class	Subsidiary risks
	ADR		:	3	
	RID		:	3	
	IMDG		:	3	
	ΙΑΤΑ		:	3	
14.4	Packir	ng group		-	
	ADR	5.5			
		g group	:	III	
		ication Code	:	F1	
	Labels	I Identification Number	÷	30 3	
	Tunnel	restriction code	:	(D/E)	
	RID				
		g group ication Code	:	III F1	
		Identification Number	:	30	
	Labels		:	3	
	IMDG				
	Labels	g group	÷	III 3	
	EmS C		:	F-E, <u>S-E</u>	
		<b>Cargo)</b> g instruction (cargo	:	366	
		g instruction (LQ)	:	Y344	
	Packin	g group	:	III	
	Labels		:	Flammable Liquid	as
		Passenger) g instruction (passen-	:	355	

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ger aircraft)	
Packing instruction (LQ)	: Y344
Packing group	: 111
Labels	: Flammable Liquids

### 14.5 Environmental hazards

	_	_
Δ	n	R
		••

Environmentally hazardous	:	yes	
<b>RID</b> Environmentally hazardous	:	yes	
IMDG Marine pollutant	:	yes	

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)		: Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
UK REACH Candidate list of substances of very h concern (SVHC) for Authorisation	nigh	: Not applicable
The Persistent Órganic Pollutants Regulations (re Regulation (EU) 2019/1021 as amended for Great ain)		: Not applicable
Regulation (EC) No 1005/2009 on substances that plete the ozone layer	at de-	: Not applicable
UK REACH List of substances subject to authorist (Annex XIV)	ation	: Not applicable
GB Export and import of hazardous chemicals - P Informed Consent (PIC) Regulation	Prior	: Not applicable
Control of Major Accident Hazards Regulations H 2015 (COMAH)	0	TOT SPECIFIC TARGET DRGAN TOXICITY – SINGLE XPOSURE
F		LAMMABLE LIQUIDS
E	E1 E	NVIRONMENTAL HAZARDS

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## 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

Number:

## **SECTION 16: Other information**

#### **Full text of H-Statements**

H225 H226 H302 H304 H315 H318 H319 H332 H335 H336 H351 H370 H372		Highly flammable liquid and vapour. Flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Causes damage to organs. 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 H412	÷	Toxic to aquatic life with long lasting effects.	
	•	Harmful to aquatic life with long lasting effects.	
Full text of other abbreviations			
Acute Tox.	:	Acute toxicity	
Aquatic Acute	:	Short-term (acute) aquatic hazard	
Aquatic Chronic	:	Long-term (chronic) aquatic hazard	
Asp. Tox.	:	Aspiration hazard	
Carc.	:	Carcinogenicity	
Eye Dam.	:	Serious eye damage	
Eye Irrit.	:	Eye irritation	
Flam. Liq.	:	Flammable liquids	
Skin Irrit.	:	Skin irritation	
STOT RE	:	Specific target organ toxicity - repeated exposure	
STOT SE	:	Specific target organ toxicity - single exposure	
2000/39/EC	•	Europe. Commission Directive 2000/39/EC establishing a first	
GB EH40		list of indicative occupational exposure limit values UK. EH40 WEL - Workplace Exposure Limits	
GB EH40 BAT	:	UK. Biological monitoring guidance values	
Syngenta	:	Syngenta Occupational Exposure Limit	
2000/39/EC / TWA	:	Limit Value - eight hours	
2000/39/EC / STEL	:	Short term exposure limit	
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)	
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)	
Syngenta / TWA	÷	Time weighted average	
-,	•		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-

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tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response: GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

## Further information

#### **Classification procedure:**

		•
Flam. Liq. 3	H226	Based on product data or assessment
Acute Tox. 4	H302	Based on product data or assessment
Eye Dam. 1	H318	Based on product data or assessment
Skin Sens. 1	H317	Based on product data or assessment
Carc. 2	H351	Calculation method
STOT SE 1	H370	Calculation method
STOT SE 3	H335	Calculation method
STOT SE 3	H336	Calculation method
STOT RE 1	H372	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Acute 1	H400	Based on product data or assessment
Aquatic Chronic 1	H410	Calculation method

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