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# **ACTELLIC SMOKE GEN N:20**

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

1.1 Product identifier

Trade name : ACTELLIC SMOKE GEN N:20

Design code : A13668A

Product Registration Number : MAPP 15739

Unique Formula Identifier

(UFI)

: YV10-00VM-200H-Y90J

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

Use of the Sub- : Smoke generator

stance/Mixture

Recommended restrictions

on use

professional 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

customer.services@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)

Acute toxicity, Category 4 H332: Harmful if inhaled.

Carcinogenicity, Category 2 H351: Suspected of causing cancer. Specific target organ toxicity - single ex-H370: Causes damage to organs.

posure, Category 1, Central nervous

system

Specific target organ toxicity - repeated H372: Causes damage to organs through pro-

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exposure, Category 1, Nervous system Short-term (acute) aquatic hazard, Cate-

gory 1

Long-term (chronic) aquatic hazard, Cat-

egory 1

longed or repeated exposure. 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 : H332 Harmful if inhaled.

H351 Suspected of causing cancer.

H370 Causes damage to organs (Central nervous system).H372 Causes damage to organs (Nervous system) through

prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

### Prevention:

P201 Obtain special instructions before use.

P260 Do not breathe dust.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

### Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/ doctor if you feel unwell.

P308 + P311 IF exposed or concerned: Call a POISON

CENTER/ doctor. 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) potassium chlorate 4-methylpentan-2-one

### Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instruc-

tions for use.

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#### 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; H410	>= 20 - < 25	
		M-Factor (Acute aquatic toxicity): 1,000 M-Factor (Chronic aquatic toxicity): 1,000		
potassium chlorate	3811-04-9 223-289-7 017-004-00-3	Ox. Sol. 1; H271 Acute Tox. 4; H302 Acute Tox. 4; H332 Aquatic Chronic 2; H411	>= 10 - < 20	
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 system) STOT SE 3; H336 (Central nervous system)	>= 1 - < 10	
Substances with a workplace exposure limit :				
kaolin	1332-58-7 310-194-1		>= 30 - < 50	

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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.

If inhaled : Move the victim to fresh air.

If breathing is irregular or stopped, administer artificial respira-

tion.

Keep patient warm and at rest.

Call a physician or poison control centre immediately.

In case of skin contact : 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 : 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 : If swallowed, seek medical advice immediately and show this

container or label.

Do NOT induce vomiting.

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

Symptoms : Poisoning produces effects associated with anticholinesterase

activity which may include:

Nausea Diarrhoea Vomiting

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

Treatment : Consider taking venous blood for determination of blood cho-

linesterase activity (use heparin tube). Administer atropine sulphate as antidote.

Specific antidotes are oximes (e.g. Pralidoxime) or Toxogonin.

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media : Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

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Extinguishing media - large fires

Alcohol-resistant foam

or

Water spray

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

Specific hazards during fire-

fighting

As the product contains combustible organic components, fire

will produce dense black smoke containing hazardous products of combustion (see section 10).

Exposure to decomposition products may be a hazard to

health.

May cause or intensify fire; oxidizer.

#### 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.

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

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.

Avoid dust formation.

### 6.2 Environmental precautions

Environmental precautions : 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, pick up with an electrically protected vacuum

cleaner or by wet-brushing and transfer to a container for dis-

posal according to local regulations (see section 13).

Do not create a powder cloud by using a brush or compressed

air.

Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.

Retain and dispose of contaminated wash water.

#### 6.4 Reference to other sections

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

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

### 7.1 Precautions for safe handling

Advice on safe handling : This material is capable of forming flammable dust clouds in

air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flamma-

ble solvents.

Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and wellventilated place. Keep out of the reach of children. Keep away

from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Specific use(s) : For proper and safe use of this product, please refer to the

approval conditions 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
kaolin	1332-58-7	TWA (Respirable dust)	2 mg/m3	GB EH40
	halable dust a sampling is ur MDHS14/4 Go ble, thoracic a hazardous to in air equal to mg.m-3 8-hou ject to COSHI have been as the appropriat of sizes. The lentry into the depend on the	are those fractions of indertaken in accordate eneral methods for some individual inhalable aerosological inhalable aerosological inhalable aerosological inhalable aerosological inhalable are exposisioned specific WEL in its perior industrial inhalable inh	ses of these limits, respirable airborne dust which will be ounce with the methods descriampling and gravimetric anales., The COSHH definition of of any kind when present at ang.m-3 8-hour TWA of inhala dust. This means that any dust to dust above these levels and exposure to these mustrial dusts contain particles of any fate of any particular paystem, and the body responsithe particle. HSE distinguished termed 'inhalable' and 'respirations with the service of the se	collected when bed in lysis or respira- a substance a concentration ble dust or 4 ust will be sub-ls. Some dusts st comply with f a wide range article after se that it elicits, es two size

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	ble dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
		TWA (Respirable	0.1 mg/m3	2004/37/EC
		dust)		
	Further inform	nation: Carcinogens	or mutagens	
pirimiphos-methyl (ISO)	29232-93-7	TWA	3 mg/m3 (Skin)	Syngenta
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
		0.11	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.			
	ĺ	TWA	20 ppm	2000/39/EC
			83 mg/m3	
	Further inform	nation: Indicative	<u> </u>	•
		STEL	50 ppm	2000/39/EC
			208 mg/m3	
	Further inform	nation: Indicative		

# **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
4-methylpentan-2-one	108-10-1	4-methylpentan-2- one: 20 micromol per litre (Urine)	After shift	GB EH40 BAT

# **Derived No Effect Level (DNEL):**

	1			
Substance name	End Use	Exposure routes	Potential health ef-	Value
		·	fects	
pirimiphos-methyl	Workers	Inhalation	Long-term systemic	0.027 mg/m3
(ISO)			effects	
	Workers	Dermal	Long-term systemic	0.046 mg/kg
			effects	
	Consumers	Inhalation	Long-term systemic	0.005 mg/m3
			effects	
	Consumers	Dermal	Long-term systemic	0.017 mg/kg
			effects	
	Consumers	Oral	Long-term systemic	0.002 mg/kg
			effects	
potassium chlorate	Workers	Dermal	Long-term systemic	5 mg/kg
,			effects	bw/day

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	Workers	Inhalation	Long-term systemic effects	0.7 mg/m3
	Consumers	Oral	Long-term systemic effects	0.05 mg/kg bw/day
silane, dichlorodime- thyl-, reaction prod- ucts with silica		Inhalation		4 mg/m3
4-methylpentan-2-one	Workers	Inhalation	Long-term systemic effects	83 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	208 mg/m3
	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

# **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
potassium chlorate	Fresh water	1.15 mg/l
	Marine water	1.15 mg/l
	Sewage treatment plant	115 mg/l
	Marine sediment	4.14 mg/kg dry
		weight (d.w.)
	Fresh water sediment	4.14 mg/kg dry
		weight (d.w.)
	Soil	3.83 mg/kg dry
		weight (d.w.)
	Secondary poisoning	12.78 mg/kg
4-methylpentan-2-one	Fresh water	0.6 mg/l
	Marine water	0.06 mg/l
	Freshwater - intermittent	1.5 mg/l
	Sewage treatment plant	27.5 mg/l
	Fresh water sediment	8.27 mg/kg

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Marine sediment	0.83 mg/kg
Soil	1.3 mg/kg

### 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 Hand protection

No special protective equipment required.

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : 0.5 mm

Remarks : 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 conditions 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.

Skin and body protection : 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:

Dust impervious protective suit

Respiratory protection : When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Suitable respiratory equipment: Respirator with a half face mask

The filter class for the respirator must be suitable for the max-

imum expected contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

Protective measures : The use of technical measures should always have priority

over the use of personal protective equipment.

When selecting personal protective equipment, seek appro-

priate professional advice.

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

9.1 Information on basic physical and chemical properties

Appearance : granules
Colour : off-white
Odour : characteristic
Odour Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : No data available

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 g/cm3

Bulk density : approximately 940 kg/m3

Solubility(ies)

Water solubility : slightly soluble Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

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# 9.2 Other information

Minimum ignition temperature : 475 °C Minimum ignition energy : > 500 mJ

Particle size : No data available

## **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

products

: No hazardous decomposition products are known.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Information on likely routes of : Ingestion exposure Inhalation

sure Inhalation Skin contact

Eye contact

## **Acute toxicity**

#### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : LC50 (Rat, female): 3.22 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance/mixture is not toxic on inhalation

as defined by dangerous goods regulations.

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**Components:** 

pirimiphos-methyl (ISO):

Acute oral toxicity : LD50 (Rat, male and female): 1,414 mg/kg

Acute toxicity estimate: 1,414 mg/kg

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.04 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

potassium chlorate:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after

short term inhalation.

4-methylpentan-2-one:

Acute oral toxicity : LD50 (Rat): 2,080 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after

short term inhalation.

Skin corrosion/irritation

**Components:** 

pirimiphos-methyl (ISO):

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

**Components:** 

pirimiphos-methyl (ISO):

Species : Rabbit

Result : No eye irritation

4-methylpentan-2-one:

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**Species** Rabbit

Result Irritation to eyes, reversing within 21 days

Respiratory or skin sensitisation

**Components:** 

pirimiphos-methyl (ISO):

**Species** Guinea pig

Result Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

**Components:** 

pirimiphos-methyl (ISO):

sessment

Germ cell mutagenicity- As- : Animal testing did not show any mutagenic effects.

Carcinogenicity

**Components:** 

pirimiphos-methyl (ISO):

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

4-methylpentan-2-one:

Carcinogenicity - Assess-

Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

**Components:** 

pirimiphos-methyl (ISO):

Reproductive toxicity - As-

sessment

: No toxicity to reproduction

STOT - single exposure

**Components:** 

pirimiphos-methyl (ISO):

**Target Organs** Central nervous system

Assessment The substance or mixture is classified as specific target organ

toxicant, single exposure, category 1.

4-methylpentan-2-one:

Assessment The substance or mixture is classified as specific target organ

toxicant, single exposure, category 3 with narcotic effects.

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STOT - repeated exposure

**Components:** 

pirimiphos-methyl (ISO):

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Aspiration toxicity

**SECTION 12: Ecological information** 

12.1 Toxicity

**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)

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0.00005 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic

toxicity)

: 1,000

potassium chlorate:

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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#### 12.2 Persistence and degradability

### **Components:**

pirimiphos-methyl (ISO):

Stability in water : Degradation half life: 4 - 6 d

Remarks: Product is not persistent.

### 12.3 Bioaccumulative potential

**Components:** 

pirimiphos-methyl (ISO):

Bioaccumulation : Remarks: High bioaccumulation potential.

Partition coefficient: n-

octanol/water

log Pow: 3.9 (20 °C)

pH: 4

log Pow: 4.2 (20 °C)

pH: 5 - 7

### 12.4 Mobility in soil

#### **Components:**

pirimiphos-methyl (ISO):

Distribution among environ-

mental compartments
Stability in soil

: Remarks: Low mobility in soil.

: Dissipation time: 8.3 d

Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

## 12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment : 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.

Components:

pirimiphos-methyl (ISO):

Assessment : This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).. This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

4-methylpentan-2-one:

Assessment : This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).. This substance is not considered to be

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very persistent and very bioaccumulating (vPvB).

#### 12.6 Other adverse effects

#### **Product:**

Endocrine disrupting poten-

tial

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or incinera-

uon.

If recycling is not practicable, dispose of in compliance with

local regulations.

Contaminated packaging : Empty remaining contents.

Triple rinse containers.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal. Do not re-use empty containers.

# **SECTION 14: Transport information**

### 14.1 UN number

 ADR
 : UN 3077

 RID
 : UN 3077

 IMDG
 : UN 3077

 IATA
 : UN 3077

14.2 UN proper shipping name

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(PIRIMIPHOS-METHYL)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(PIRIMIPHOS-METHYL)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(PIRIMIPHOS-METHYL)

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IATA : Environmentally hazardous substance, solid, n.o.s.

(PIRIMIPHOS-METHYL)

14.3 Transport hazard class(es)

Class Subsidiary risks

 ADR
 : 9

 RID
 : 9

 IMDG
 : 9

 IATA
 : 9

14.4 Packing group

**ADR** 

Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

Remarks : This product can be subject to exemptions when packaged in

single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a

net mass of 5 kg or less for solids.

**RID** 

Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

Remarks : This product can be subject to exemptions when packaged in

single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a

net mass of 5 kg or less for solids.

**IMDG** 

Packing group : III
Labels : 9
EmS Code : F-A, S-F

Remarks : This product can be subject to exemptions when packaged in

single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a

net mass of 5 kg or less for solids.

IATA (Cargo)

Packing instruction (cargo : 956

aircraft)

Packing instruction (LQ) : Y956
Packing group : III

Labels : Miscellaneous

Remarks : This product can be subject to exemptions when packaged in

single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a

net mass of 5 kg or less for solids.

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IATA (Passenger)

Packing instruction (passen- : 956

ger aircraft)

Packing instruction (LQ) : Y956
Packing group : III

Labels : Miscellaneous

Remarks : This product can be subject to exemptions when packaged in

single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a

net mass of 5 kg or less for solids.

14.5 Environmental hazards

**ADR** 

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

**IMDG** 

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : 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)

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

UK REACH List of substances subject to authorisation

(Annex XIV)

GB Export and import of hazardous chemicals - Prior

Informed Consent (PIC) Regulation

Control of Major Accident Hazards Regulations H3

2015 (COMAH)

: Not applicable

Not applicable

Not applicable

: potassium chlorate

STOT SPECIFIC TARGET ORGAN TOXICITY – SINGLE

**EXPOSURE** 

E1 ENVIRONMENTAL 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.

#### **SECTION 16: Other information**

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

H225 : Highly flammable liquid and vapour.

H271 : May cause fire or explosion; strong oxidizer.

H302 : Harmful if swallowed.

H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H335
H336
May cause respiratory irritation.
H336
May cause drowsiness or dizziness.
H351
Suspected of causing cancer.
H370
Causes damage to organs.

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.

### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Carc. : Carcinogenicity
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Ox. Sol. : Oxidizing solids

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

list of indicative occupational exposure limit values

2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers

from the risks related to exposure to carcinogens or mutagens

at work

GB EH40 : 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 2004/37/EC / TWA : Long 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 of the mixture: Classification procedure:

Acute Tox. 4	H332	Based on product data or assessment
Carc. 2	H351	Calculation method
STOT SE 1	H370	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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