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

1.1 Product identifier Trade name	: COOPEX MAXI SMOKE GENERATOR
Product code	: Article/SKU: 04359401 UVP: 05938406 Specification: 102000002531
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Use of the Sub- stance/Mixture	: Insecticide
1.3 Details of the supplier of	the safety data sheet
Company	2022 Environmental Science FR S.A.S. Milton Hall, Ely Rd, Milton, Cambridge CB24 6WZ United Kingdom
Telephone	: 00800-1214-9451(UK)
E-mail address of person responsible for the SDS	: service.clients.es.france@envu.com

1.4 Emergency telephone number

+44 20 3807 3798

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	H302: Harmful if swallowed.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single ex- posure, Category 3	H335: May cause respiratory irritation.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

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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	:	Warning
Hazard statements	:	 H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention:P261Avoid breathing dust.P280Wear protective gloves/ eye protection/ face protection.
		Response:P304 + P340 + P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.P321Specific treatment (see supplemental first aid instruc- tions on this label).P333 + P313If skin irritation or rash occurs: Get medical advice/ attention.P391Collect spillage.
Hazardous components wh	ich r	nust be listed on the label:

Potassium chlorate Permethrin

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.

May form explosible dust-air mixture if dispersed.

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). Ignites readily. Product burns without a flame to give a dense white harmful smoke. Contact with dust can cause mechanical irritation or drying of the skin.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Smoke generator (FU)

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
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
Permethrin	52645-53-1 258-067-9 613-058-00-2	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10,000 M-Factor (Chronic aquatic toxicity): 10,000	>= 10 - < 20
3-Phenoxybenzylic alcohol	13826-35-2 237-525-1 01-2120770239-48	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0.25 - < 1
Substances with a workplace expo	osure limit :		
Talc	14807-96-6 238-877-9		>= 20 - < 30

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : In the case of accident or if you feel unwell, seek medical ad-

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		vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Prote	ection of first-aiders	: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
lf inha	aled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In ca	se of skin contact	 In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In ca	se of eye contact	 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
lf swa	allowed	 If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
4.2 Most	important symptoms	and effects, both acute and delayed
	otoms	 Skin and eye paraesthesia which may be severe Usually transient with resolution within 24 hours The product causes irritation of eyes, skin and mucous mem- branes. Cough sneezing discomfort in the chest tachycardia hypotension Nausea Abdominal pain Diarrhoea Vomiting Dizziness Blurred vision Headache anorexia Somnolence Coma Convulsions Tremors Airway hyperreaction

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				Pulmonary oedem Palpitation muscle twitching Lethargy	าล
	Risks		:	the skin. This product cont	ing should not be confused with carbamate
4.3	Indicati	ion of any immediate	me	dical attention and	d special treatment needed
4.3 Indication of any immediate m Treatment		:	Initial treatment: symptomatic. There is no specific antidote available. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Oxygen or artificial respiration if needed. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. Keep respiratory tract clear. Contraindication: atropine. Monitor: respiratory and cardiac functions. If not effective, phenobarbital may be used. Contraindication: derivatives of adrenaline. Recovery is spontaneous and without sequelae. In case of skin irritation, application of oils or lotions containing vitamin E may be considered.		
SE	CTION	5: Firefighting mea	sur	es	
5.1	-	iishing media e extinguishing media		Water spray	
	Guilabi		·	Alcohol-resistant Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	High volume wate	er jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Do not use a solid water stream as it may scatter and spread fire. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Metal oxides Silicon oxides

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				Carbon oxides Chlorine compour Chlorine compour	
5.3	Advice	for firefighters			
	Special for firefi	protective equipment ghters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
	Specific extinguishing meth- ods		:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

6.1 Personal precautions, protec Personal precautions	: tive	e equipment and emergency procedures Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).
6.3 Methods and material for cor	ntai	nment and cleaning up
Methods for cleaning up	:	Surround spill with absorbents and place a damp covering over the area to minimise entry of the material into the air. Add excess liquid to allow the material to enter into solution. Soak up with inert absorbent material. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling]
Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	 Do not get on skin or clothing. Avoid breathing dust. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitisers. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	: If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use.
7.2 Conditions for safe storage, in	ncluding any incompatibilities
Requirements for storage areas and containers	: Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.
Advice on common storage	: Do not store with the following product types: Strong oxidizing agents
7.3 Specific end use(s)	
Specific use(s)	: Refer to the label and/or leaflet.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

dust of any kind

10 mg/m3 Value type (Form of exposure): TWA (Inhalable) Basis: GB EH40

4 mg/m3 Value type (Form of exposure): TWA (Respirable fraction) Basis: GB EH40

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Talc	14807-96-6	TWA (Respirable dust)	1 mg/m3	GB EH40

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Potassium chlorate	Workers	Inhalation	Long-term systemic effects	5.76 mg/m3
	Workers	Skin contact	Long-term systemic effects	3.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.3 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0.13 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.06 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Potassium chlorate	Fresh water	1.15 mg/l
	Marine water	1.15 mg/l
	Sewage treatment plant	115 mg/l
	Soil	3.83 mg/kg dry
		weight (d.w.)

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.

Apply measures to prevent dust explosions.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

If sufficient ventilation is unavailable, use with local exhaust ventilation.

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Per	sonal protective equipn	nent		
Eye	/face protection	:	Safety goggles	g personal protective equipment: d conform to BS EN 166
Har	nd protection			
E C L	Material Break through time Glove thickness Directive Protective index	:	Nitrile rubber > 480 min > 0.4 mm Equipment should Class 6	conform to BS EN 374
F	Remarks	:	on the concentrati stance and specifi we recommend cl aforementioned pi er. Wash hands b Please observe th breakthrough time gloves. Also take tions under which	protect hands against chemicals depending on and quantity of the hazardous sub- ic to place of work. For special applications, arifying the resistance to chemicals of the rotective gloves with the glove manufactur- efore breaks and at the end of workday. he instructions regarding permeability and which are provided by the supplier of the into consideration the specific local condi- the product is used, such as the danger of d the contact time.
Skir	and body protection	:	sistance data and tial. Skin contact must	protective clothing based on chemical re- an assessment of the local exposure poten- be avoided by using impervious protective aprons, boots, etc).
Res	piratory protection	:	sure assessment ommended guidel	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- ines, use respiratory protection. conform to BS EN 14387
F	Filter type	:	Combined particul	lates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	powder
Colour	:	light beige, white
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	No data available

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	Melting	point/freezing point	:	No data available	
	Initial boiling point and boiling range		:	No data available	
	Flash p	oint	:	Not applicable	
	Evapora	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	Not classified as	a flammability hazard
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relative	vapour density	:	Not applicable	
	Relative	e density	:	No data available	
	Bulk de	nsity	:	940 kg/m³	
	Solubili Wat	ty(ies) er solubility	:	partly soluble	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Auto-ig	nition temperature	:	> 130 °C	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
9.2 (Other in	formation			
	Particle	size	:	No data available	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

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10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions						
Hazardous reactions	:	Dust can form an explosive mixture in air. Can react with strong oxidizing agents.				
10.4 Conditions to avoid						
Conditions to avoid	:	Avoid dust formation.				
10.5 Incompatible materials						
Materials to avoid	:	Oxidizing agents				

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information	on likely routes of	:	Inhalation
exposure			Skin contact
			Ingestion
			Eye contact

Acute toxicity

Product:

TTOUGOU		
Acute oral toxicity	:	Acute toxicity estimate: 1,818 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Components:		
Potassium chlorate:		
Acute oral toxicity	:	LD50 (Rat): > 300 - 2,000 mg/kg Remarks: Based on data from similar materials
Acute inhalation toxicity	:	Acute toxicity estimate: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement Remarks: Based on national or regional regulation.
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal

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rsion	Revision Date: 31.03.2023		DS Number: 188422-00001	Date of last issue: - Date of first issue: 31.03.2023
			toxicity	
Perm	ethrin:			
Acute	oral toxicity	:	LD50 (Rat): 480	- 554 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 2.3 r Exposure time: 4 Test atmosphere:	ĥ
Acute dermal toxicity		:	LD50 (Rabbit): > 2,000 mg/kg	
3-Phe	enoxybenzylic alcohol:			
Acute	oral toxicity	:	LD50 (Rat, femal	e): 1,496 mg/kg
Talc:				
Acute	oral toxicity	:	LD50 (Rat): > 5,0 Remarks: Based	000 mg/kg on data from similar materials
Skin	corrosion/irritation			
<u>Produ</u>	uct:			
Speci			Rabbit	
Resul		:	No skin irritation	
Rema	IKS	:	Based on data in	om similar materials
<u>Comp</u>	oonents:			
Potas	sium chlorate:			
Speci		:	Rabbit	
Resul Rema	-	:	No skin irritation	om similar materials
Rema	IKS	•	based on data in	om similar materials
Perm	ethrin:			
Speci		:	Rabbit	
Resul	t	:	No skin irritation	
Talc:				
Speci		:	Rabbit	
Resul	t	:	No skin irritation	
Serio	us eye damage/eye irr	itat	ion	
<u>Produ</u>	uct:			
Speci	es	:	Rabbit	
Resul		:		reversing within 21 days
Rema	rks	:	Based on data fro	om similar materials

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sion	Revision Date: 31.03.2023	SDS Number: 11188422-000	
<u>Comp</u>	oonents:		
Potas	ssium chlorate:		
Speci	es	: Rabbit	
Metho			st Guideline 405
Resul	t	: No eye irr	itation
Perm	ethrin:		
Speci	es	: Rabbit	
Resul		: No eye irr	itation
Talc:			
Speci	es	: Rabbit	
Resul		: No eye irr	itation
Respi	iratory or skin sensi	isation	
<u>Produ</u>	uct:		
Expos	sure routes	: Skin conta	act
Speci		: Guinea pi	g
Resul		: positive	
Rema	ırks	: Based on	data from similar materials
Asses	ssment	: Probability	v or evidence of skin sensitisation in humans
<u>Comp</u>	oonents:		
Potas	sium chlorate:		
Test 7	Туре	: Maximisa	tion Test
	sure routes	: Skin conta	act
Speci	es	: Guinea pi	g
Metho			st Guideline 406
Resul		: negative	
Rema	irks	: Based on	data from similar materials
Perm	ethrin:		
Test 7	Туре	: Buehler T	
Test T Expos	Type sure routes	: Skin conta	act
Test Expos Speci	Type sure routes es	: Skin conta : Guinea pi	act
Test T Expos	Type sure routes es	: Skin conta	act
Test Expos Speci Resul	Type sure routes es	: Skin conta : Guinea pi : positive	act g
Test Expos Speci Resul	Type sure routes es t ssment	: Skin conta : Guinea pi : positive	act g
Test T Expos Speci Resul Asses	Type sure routes es t ssment	: Skin conta : Guinea pi : positive	act g ⁄ or evidence of skin sensitisation in humans
Test T Expos Speci Resul Asses	Type sure routes es t ssment sure routes	: Skin conta : Guinea pi : positive : Probability	act g ⁄ or evidence of skin sensitisation in humans

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Germ	cell mutagenicity		
<u>Comp</u>	oonents:		
	ssium chlorate: toxicity in vitro		sterial reverse mutation assay (AMES)) Test Guideline 471 e
		Method: OECE Result: negative	itro mammalian cell gene mutation test) Test Guideline 476 e ed on data from similar materials
		thesis in mamr Method: OECE Result: negativ	A damage and repair, unscheduled DNA syn- nalian cells (in vitro)) Test Guideline 482 e ed on data from similar materials
Genot	oxicity in vivo	cytogenetic as Species: Mous Application Ro Method: OECE Result: negative	e ute: Ingestion) Test Guideline 474
Perm	ethrin:		
Genot	toxicity in vitro	: Test Type: Bao Result: negativ	eterial reverse mutation assay (AMES)
		Test Type: In v Result: negativ	itro mammalian cell gene mutation test e
		Test Type: Chr Result: negativ	omosome aberration test in vitro e
			A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e
		Test Type: Chr Result: positive	omosome aberration test in vitro
Genot	oxicity in vivo	: Test Type: Ma cytogenetic as Species: Mous Result: negativ	e
			tagenicity (in vivo mammalian bone-marrow t, chromosomal analysis) e

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			Result: negative	
			Test Type: Roder Species: Mouse Result: negative	nt dominant lethal test (germ cell) (in vivo)
			cytogenetic assay Species: Rat	nalian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection
				jenicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion
	n cell mutagenicity- As- ment	:	Weight of evidenc cell mutagen.	e does not support classification as a germ
Talc	:			
Geno	otoxicity in vitro	:	Test Type: DNA o thesis in mammal Result: negative	damage and repair, unscheduled DNA syn- lian cells (in vitro)
Geno	otoxicity in vivo	:	Test Type: Chrom Species: Rat Application Route Result: negative	nosome aberration test in vitro e: Ingestion
Carc	inogenicity			
Com	ponents:			
Pota	ssium chlorate:			
Spec		:	Rat	
	ication Route osure time	:	Ingestion 106 weeks	
Resu		÷	negative	
Rem	arks	:	-	om similar materials
Perr	nethrin:			
Spec		:	Rat	
Resu	ılt	:	negative	
Spec		:	Mouse	
Resu	ult	:	negative	

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Sp Ap Ex	I c: pecies plication Route posure time psult	: inł : 2`	ouse halation (dust/ Years gative	'mist/fume)
Re	productive toxicity			
<u>Cc</u>	omponents:			
	otassium chlorate: fects on fertility	Sp Ap Me Re	pecies: Rat oplication Rou ethod: OECD esult: negative	Test Guideline 416
	fects on foetal develop- ent	Sp Ap Re	pecies: Rat oplication Rou esult: negative	
Ре	ermethrin:			
Eff	fects on fertility	Sr Ar	st Type: Two- pecies: Rat oplication Rou esult: negative	
	fects on foetal develop- ent	rej Sp Ap	• •	-
Та	lc:			
	fects on foetal develop- ent	Sp Ap	st Type: Emb becies: Rat oplication Rou esult: negative	
ST	OT - single exposure			
	oduct: sessment	: Ma	ay cause resp	iratory irritation.

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	T - repeated exposure eated dose toxicity			
Com	ponents:			
Spec NOA Appli	EL cation Route sure time	:	Rat > 100 mg/kg Ingestion 90 Days Based on data fro	m similar materials
Spec NOA Appli		:	Rat 0.2201 mg/l Inhalation 90 Days	
		:	Rat 175 mg/kg Ingestion 90 Days	
Aspii	ration toxicity			

SECTION 12: Ecological information

12.1 Toxicity

<u>Product:</u> Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): 0.01 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.00017 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Components:		
Potassium chlorate:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h
		Remarks: Based on data from similar materials
Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l
aquatic invertebrates		Exposure time: 48 h
5		Exposure time: 48 h Remarks: Based on data from similar materials

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	plants			Exposure time: 72	2 h
				NOEC : 0.5 mg/l Exposure time: 72	2 h
	Toxicity	to microorganisms	:	EC50 : > 1,000 m Exposure time: 3 Method: OECD Te Remarks: Based of	ĥ
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: > 1 mg/l Exposure time: 36 Species: Danio re Method: OECD Te Remarks: Based of	rio (zebra fish)
		to daphnia and other invertebrates (Chron- ty)	:	Method: OECD Te	magna (Water flea)
	Perme	thrin:			
	Toxicity	to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 0.00079 mg/l ì h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.0001 mg/l 3 h
	Toxicity plants	to algae/aquatic	:	ErC50 (Pseudokin mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 1.13 ? h
				EC10 (Pseudokirc mg/l Exposure time: 72	hneriella subcapitata (green algae)): 0.0023 ? h
	M-Facto icity)	or (Acute aquatic tox-	:	10,000	
	Toxicity	to microorganisms	:	EC50 : > 1,000 m Exposure time: 3	-
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0.00041 m Exposure time: 35 Species: Danio re Method: OECD Te	δ d rio (zebra fish)
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0.0047 µg, Exposure time: 21 Species: Daphnia Method: OECD Te	l d magna (Water flea)

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			40.000	
M-Fa toxic	actor (Chronic aquatic ity)	:	10,000	
3-Ph	enoxybenzylic alcohol:			
	city to fish	:	Exposure time: 9	o (zebra fish)): > 1.32 - < 2.90 mg/l 96 h Test Guideline 203
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia) Exposure time: 4	magna (Water flea)): 0.05 mg/l 18 h
Toxic plant	sity to algae/aquatic s	:	Exposure time: 7	vulgaris (Fresh water algae)): 13.498 mg/l 72 h Test Guideline 201
M-Fa icity)	(I	:	10	
M-Fa toxic	actor (Chronic aquatic ity)	:	10	
Talc	:			
Toxic	sity to fish	:	LC50 (Brachydai Exposure time: 2	nio rerio (zebrafish)): > 100,000 mg/l 24 h
12.2 Pers	sistence and degradabi	lity		
<u>Com</u>	ponents:			
Pern	nethrin:			
Biode	egradability	:		ily biodegradable. Test Guideline 301F
12.3 Bioa	accumulative potential			
<u>Com</u>	ponents:			
Pern	nethrin:			
Bioa	ccumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 570
	tion coefficient: n- nol/water	:	log Pow: 4.67	
	ility in soil ata available			
12.5 Res	ults of PBT and vPvB a	sse	ssment	
Prod	luct:			
<u></u>				

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Asse	ssment	to be either pers	: 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.				
12.6 Endo	ocrine disrupting prop	perties					
<u>Prod</u>	<u>uct:</u>						
Asse	ssment	ered to have en REACH Article	mixture does not contain components consid- docrine disrupting properties according to 57(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at or higher.				
	r adverse effects						

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods		
Product	:	It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	:	Follow advice on product label and/or leaflet. Empty containers retain residue and can be dangerous. Do not re-use empty containers.
Waste Code	:	The following Waste Codes are only suggestions:
		used product 02 01 08, agrochemical waste containing hazardous sub- stances
		unused product 02 01 08, agrochemical waste containing hazardous sub- stances
		uncleaned packagings 15 01 10, packaging containing residues of or contaminated by hazardous substances

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SECTION 14: Transport information

14.1 UN number		
ADN		UN 3077
ADR	•	UN 3077
RID	•	UN 3077
IMDG		UN 3077
IATA	:	UN 3077
14.2 UN proper shipping name		
ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Permethrin)
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Permethrin)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Permethrin)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Permethrin)
ΙΑΤΑ	:	Environmentally hazardous substance, solid, n.o.s. (Permethrin)
14.3 Transport hazard class(es)		
ADN	:	9
ADR	:	9
RID	:	9
IMDG	:	9
ΙΑΤΑ	:	9
14.4 Packing group		
ADN Packing group Classification Code Hazard Identification Number Labels ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code		III M7 90 9 III M7 90 9 9 (-)

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		g group cation Code Identification Number	:	III M7 90 9	
	IMDG Packing Labels EmS C		:	III 9 F-A, S-F	
	aircraft)	g instruction (cargo g instruction (LQ)	: : :	956 Y956 III Miscellaneous	
	Packing ger airc	g instruction (LQ)	:	956 Y956 III Miscellaneous	
14.5	5 Enviro	nmental hazards			
		mentally hazardous	:	yes	
	ADR Environ	mentally hazardous	:	yes	
	RID Environ	mentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
		Passenger) mentally hazardous	:	yes	
	IATA (C Environ	Cargo) mentally hazardous	:	yes	
14.6	Specia	Il precautions for use	r		

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

Remarks	:	Not applicable for product as supplied.
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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-ture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Ar	:	Not applicable	
UK REACH Candidate list of subs concern (SVHC) for Authorisation		:	Not applicable
The Persistent Organic Pollutants Regulation (EU) 2019/1021 as an ain)		:	Not applicable
Regulation (EC) No 1005/2009 or plete the ozone layer	n substances that de-	:	Not applicable
Regulation (EU) 2019/1148 on the explosives precursors	e marketing and use of	:	Potassium chlorate
UK REACH List of substances subject to authorisation (Annex XIV)			Not applicable
GB Export and import of hazardou Informed Consent (PIC) Regulation	:	Potassium chlorate Permethrin	
Regulation (EU) No 528/2012 of t concerning the making available Product TypeActive substance:	on the market and use of	f bio	
Control of Major Accident Hazards	s Regulations 2015 (COI	MAI	,
E1	ENVIRONMENTAL HAZARDS		Quantity 1 Quantity 2 100 t 200 t

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367)

Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786) Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)

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Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009 Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677) EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits Control of Pesticide Regulations 1986 Dangerous Substances and Explosive Atmospheres Regulations 2002 Environmental Protection Act 1990, Part II Environmental Protection (Duty of Care) Regulations 1991 The Waste Management Licensing Regulations 1994 (as amended) Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended) Landfill Directive Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94) Water Resources Act 1991 Anti-Pollution Works Regulations 1999

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

Full text of H-Statements

H271 :	May cause fire or explosion; strong oxidizer.
H302 :	Harmful if swallowed.
H317 :	May cause an allergic skin reaction.
H332 :	Harmful if inhaled.
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
Ox. Sol.	:	Oxidizing solids
Skin Sens.	:	Skin sensitisation
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)

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; Regulation (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

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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

Sources of key data used to compile the Safety Data	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

Classification of the mixture:

Acute Tox. 4	H302
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H335
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure: Calculation method Based on product data or assessment Based on product data or assessment Based on product data or assessment Based on product data or assessment

Calculation method

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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