SAFETY DATA SHEET

Arrivo 25 EC

This safety data sheet complies with the requirements of: Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



SDS #: 3766-A

Revision date: 2019-05-12

Format: EU Version 2

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

Product Code(s) 3766-A

Arrivo 25 EC **Product Name**

CYPERMETHRIN (FMC 30980); (RS)-α-cyano-3-phenoxybenzyl **Synonyms**

(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (IUPAC

name); cyano(3-phenoxyphenyl)methyl

3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (CAS name)

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

Recommended Use: Insecticide

Restrictions on Use: Use as recommended by the label.

1.3. Details of the supplier of the safety data sheet

FMC LLC Supplier

, bld. 6 Andropova Prospekt,

Moscow, 115432,

Russia

Telephone: +7 495 783 9003 Fax: +7 495 783 9005

E-mail: SDS.Ronland@fmc.com

For further information, please contact:

(+45) 97 83 53 53 (24 h; for emergencies only) **Contact point**

1.4. Emergency telephone number

Emergency telephone Medical emergencies:

> Austria: +43 1 406 43 43 Belgium: +32 70 245 245 Bulgaria: +359 2 9154 409

Cyprus: 1401

Czech Republic: +420 224 919 293, +420 224 915 402

Denmark: +45 82 12 12 12 France: +33 (0) 1 45 42 59 59 Finland: +358 9 471 977 Greece: 30 210 77 93 777 Hungary: +36 80 20 11 99 Ireland (Republic): +352 1 809 2166

Italy: +39 02 6610 1029

Lithuania: +370 523 62052, +370 687 53378

Luxembourg: +352 8002 5500 Netherlands: +31 30 274 88 88 Norway: +47 22 591300

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Poland: +48 22 619 66 54, +48 22 619 08 97

Portugal: 808 250 143 (in Portugal only), +351 21 330 3284

Romania: +40 21318 3606 Slovakia: +421 2 54 77 4 166 Slovenia: +386 41 650 500 Spain: +34 91 562 04 20 Sweden: +46 08-331231112

Switzerland: 145

United Kingdom: 0870 600 6266 (in the UK only)

U.S.A. & Canada: +1 800 / 331-3148

All other countries: +1 651 / 632-6793 (Collect)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

Aspiration toxicity	Category 1
Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1B
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1
FLAMMABLE LIQUIDS	Category 3

2.2. Label elements

Hazard pictograms



Signal Word Danger

Hazard Statements

H304 - May be fatal if swallowed and enters airways

H301 - Toxic if swallowed

H332 - Harmful if inhaled

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

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

Precautionary Statements

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment

P242 - Use only non-sparking tools

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- P243 Take precautionary measures against static discharge
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
- P403 + P235 Store in a well-ventilated place. Keep cool
- P501: Dispose of contents/container as hazardous waste.
- P270 Do not eat, drink or smoke when using this product
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P330 Rinse mouth
- P331 Do NOT induce vomiting
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P271 Use only outdoors or in a well-ventilated area
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P312 Call a POISON CENTER or doctor if you feel unwell
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 If eye irritation persists: Get medical advice/attention
- P272 Contaminated work clothing should not be allowed out of the workplace
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
- P362 + P364 Take off all contaminated clothing and wash it before reuse
- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P210 Keep away from open flames/hot surfaces. No smoking
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P321 Specific treatment (see supplemental first aid instructions on this label)

2.3. Other hazards

None of the ingredients in the product meets the criteria for being PBT or vPvB.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

The product is a mixture, not a substance.

Chemical name	EC-No	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Naphtha (petroleum), heavy aromatic	265-198-5	64742-94-5	60-70	Asp.Tox. 1 (H304) Carc. 2 (H351) Aquatic Chronic 2 (H411)	No data available
Cypermethrin	Present	52315-07-8	7-8 26 Acute Tox. 4 (H302)		No data available
Pseudocumene	Present	95-63-6	<22	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226)	No data available
Xylenes	Present	1330-20-7	1-5	Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Flam. Liq. 3 (H226)	No data available
Cumene	Present	98-82-8	0,1-1	STOT SE 3 (H335) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226)	No data available

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For the full text of the H- and EUH- phrases mentioned in this Section, see Section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation

develops or persists.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention if irritation develops and persists.

Inhalation Move to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical

attention.

Ingestion Immediately call a poison control center or doctor. Do not induce vomiting unless told to do

so by a poison control center or doctor. Do not give any liquid to the person. Do not give

anything by mouth to an unconscious person.

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

Most important symptoms and effects, both acute and delayed

Central nervous system effects, Allergic skin reactions.

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

Indication of immediate medical attention and special treatment needed, if necessary

This product contains aromatic hydrocarbons that can produce a severe pneumonitis if aspirated during vomiting. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Dry chemical or CO2, Alcohol-resistant foam, Water spray. Avoid heavy hose streams.

Unsuitable extinguishing media

No information available

5.2. Special hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon oxides (COx), Hydrogen cyanide, Chlorine, Hydrogen chloride.

5.3. Advice for firefighters

Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

It is recommended to have a predetermined plan for the handling of spills. Empty, closable vessels for the collection of spills should be available.

In case of large spill (involving 10 tonnes of the product or more):

Observe all safety precautions when cleaning up spills. Use personal protection equipment. Depending on the magnitude of the

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spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and rubber boots. Stop the source of the spill immediately if safe to do so. Keep unprotected persons away from the spill area.

For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering surface water drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

bunding or capping. Use non-sparking tools and equipment.

If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should immediately be swept up or preferably vacuumed up using equipment with high efficiency final filter. Transfer to suitable containers. Clean area with detergent and much water. Absorb wash liquid onto inert absorbent such as universal binder, Fuller's earth, bentonite or other absorbent clay and collect in suitable containers.

The used containers should be properly closed and labelled.

Methods for cleaning up

Clean and neutralize spill area, tools and equipment by washing with water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling

In an industrial environment, it is recommended to avoid any personal contact with the product, if possible, using remotely controlled systems with remote control. Otherwise, it is recommended to process the material with maximum mechanical means. Adequate ventilation or local exhaust ventilation is required. Exhaust gases must be filtered or treated differently. For personal protection in this situation, see Section 8. Remove contaminated clothing and shoes. Wash thoroughly after handling. Use protective gloves made from chemicals such as nitrile or neoprene. Wash gloves with soap and water before reuse. Check regularly for leaks. Do not dispose into the environment. Do not contaminate water when disposing of the flushing water for equipment. Collect all waste and residues from cleaning equipment, etc. And dispose of them as hazardous waste. See Section 13 for disposal.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1. Control parameters

Chemical name	European Union	The United Kingdom	France	Spain	Germany
Pseudocumene	TWA 20 ppm	-	TWA 20 ppm	TWA 20 ppm	-
95-63-6	TWA 100 mg/m ³		TWA 100 mg/m ³	TWA 100 mg/m ³	
			STEL 50 ppm		
			STEL 250 mg/m ³		
Xylenes	TWA 50 ppm	STEL 100 ppm	TWA 50 ppm	TWA 50 ppm	-
1330-20-7	TWA 221 mg/m ³	STEL 441 mg/m ³	TWA 221 mg/m ³	TWA 221 mg/m ³	
	STEL 100 ppm	TWA 50 ppm	STEL 100 ppm	STEL 100 ppm	
	STEL 442 mg/m ³	TWA 220 mg/m ³	STEL 442 mg/m ³ P*	STEL 442 mg/m ³	
0	S*	Skin	•	S*	
Cumene	TWA 20 ppm	STEL 50 ppm	TWA 20 ppm	TWA 20 ppm	-
98-82-8	TWA 100 mg/m ³	STEL 250 mg/m³	TWA 100 mg/m ³	TWA 100 mg/m ³	
	STEL 50 ppm STEL 250 mg/m ³	TWA 25 ppm	STEL 50 ppm STEL 250 mg/m ³	STEL 50 ppm STEL 250 mg/m ³	
	STEL 250 mg/m ³ S*	TWA 125 mg/m³ Skin	51EL 250 mg/m²	STEL 250 mg/m ^o S*	
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
Pseudocumene	TWA 20 ppm	TWA 20 ppm	STEL 200 mg/m ³	TWA 20 ppm	TWA 20 ppm
95-63-6	TWA 100 mg/m ³	TWA 100 mg/m ³	TWA 100 mg/m ³	TWA 100 mg/m ³	TWA 100 mg/m ³
Xylenes	TWA 50 ppm	TWA 50 ppm	Huid*	TWA 50 ppm	TWA 25 ppm
1330-20-7	TWA 221 mg/m ³	TWA 221 mg/m ³	STEL 442 mg/m ³	TWA 220 mg/m ³	TWA 109 mg/m ³
	STEL 100 ppm	STEL 100 ppm	TWA 210 mg/m ³	STEL 100 ppm	H*
	STEL 442 mg/m ³	STEL 442 mg/m ³	- 3	STEL 440 mg/m ³	
	Pelle*	C(A4)		iho*	
		`P* ´			
Cumene	TWA 20 ppm	TWA 20 ppm	Huid*	TWA 20 ppm	TWA 20 ppm
98-82-8	TWA 100 mg/m ³	TWA 100 mg/m ³	STEL 250 mg/m ³	TWA 100 mg/m ³	TWA 100 mg/m ³
	STEL 50 ppm	STEL 50 ppm	TWA 100 mg/m ³	STEL 50 ppm	H*
	STEL 250 mg/m ³	STEL 250 mg/m ³		STEL 250 mg/m ³	
	Pelle*	P*		iho*	
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Pseudocumene	STEL 30 ppm	-	TWA 100 mg/m ³	TWA 20 ppm	TWA 20 ppm
95-63-6	STEL 150 mg/m ³		STEL 170 mg/m ³	TWA 100 mg/m ³	TWA 100 mg/m ³
	TWA 20 ppm TWA 100 mg/m ³			STEL 30 ppm STEL 125 mg/m ³	STEL 60 ppm STEL 300 mg/m ³
Vylanas		H*	TMA 100 ma/m3		
Xylenes 1330-20-7	STEL 100 ppm STEL 442 mg/m ³	TWA 100 ppm	TWA 100 mg/m ³ STEL 200 mg/m ³	TWA 25 ppm TWA 108 mg/m ³	TWA 50 ppm TWA 221 mg/m ³
1330-20-7	TWA 50 ppm	TWA 100 ppm TWA 435 mg/m ³	STEL 200 mg/m	S*	STEL 100 ppm
	TWA 221 mg/m ³	STEL 200 ppm		STEL 37.5 ppm	STEL 442 mg/m ³
	TWA 221 mg/m	STEL 200 ppm STEL 870 mg/m ³		STEL 37.5 ppm STEL 135 mg/m ³	Skin
Cumene	H*	SS-C**	TWA 50 mg/m ³	TWA 20 ppm	TWA 20 ppm
98-82-8	STEL 50 ppm	H*	STEL 250 mg/m ³	TWA 100 mg/m ³	TWA 100 mg/m ³
	STEL 250 mg/m ³	TWA 20 ppm		S*	STEL 50 ppm
	TWA 20 ppm	TWA 100 mg/m ³		K**	STEL 250 mg/m ³
	TWA 100 mg/m ³	C2 C2		STEL 50 ppm	Skin
		STEL 80 ppm		STEL 250 mg/m ³	
		STEL 400 mg/m ³			

Chemical name	European Union	The United Kingdom	France	Spain	Germany
Pseudocumene	-	=	600	=	Biologische
95-63-6					Grenzwerte nach
					TRGS 903 sind zu
					beachten
Xylenes	-	650	1500	1	Biologische
1330-20-7					Grenzwerte nach
					TRGS 903 sind zu
					beachten
					Biologische
					Grenzwerte nach die
					Verordnung zur
					arbeitsmedizinischen
					Vorsorge vom 18.
					Dezember 2008 sind
					zu beachten
Cumene	-	-	-	-	Biologische
98-82-8					Grenzwerte nach

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					TRGS 903 sind zu beachten
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
Xylenes 1330-20-7	-	-	-	5.0	-
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Xylenes 1330-20-7	-	2	-	-	-
Cumene 98-82-8	-	20	-	-	-

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration

No information available.

(PNEC)

8.2. Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas. . Ventilate all transport vehicles

prior to unloading.

Personal protective equipment

Eye/Face Protection

To protect against dust, splash, mist, or spray, wear safety glasses.

Hand Protection

Wear chemical protective gloves made of materials such as nitrile or neoprene.

Skin and Body Protection

Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of appreciable or prolonged exposure,

coveralls of barrier laminate may be required.

Respiratory Protection

As a rule, during normal operation, the product does not create a dangerous concentration in the air, however, if discharged during production or when handling the product, vapors or mists may form. In this case it is necessary to use a filtering mask with a universal filter,

including an aerosol filter.

Environmental exposure controls

Avoid release to the environment.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Liquid Appearance Amber

Odor Aromatic Solvent

Color Amber

Odor threshold

pH

No information available

Flash point 43,3 °C / 109,94 °F Tag Closed Cup

Evaporation RateNo information available

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available
No information available

Specific gravity 0,976 Water solubility Emulsifies

Solubility in other solvents
Partition coefficient
Autoignition temperature
No information available
No information available

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Decomposition temperatureNo information availableViscosity, kinematicNo information availableViscosity, dynamicNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

9.2. Other information

Softening point
Molecular weight
VOC content (%)
No information available
No information available
No information available

Relative density 8,08

Bulk densityNo information availableKstNo information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions

10.2. Chemical stability

Stable under recommended storage conditions.

Explosion data

Sensitivity to Mechanical Impact No information available. **Sensitivity to Static Discharge** No information available.

10.3. Possibility of hazardous reactions

Hazardous polymerization

Hazardous polymerization does not occur.

Hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases.

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon oxides (COx), Hydrogen cyanide, Chlorine, Hydrogen chloride,

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

 LD50 Oral
 137 mg/kg (rat)

 LD50 Dermal
 > 2000 mg/kg (rabbit)

 LC50 Inhalation
 2,18 mg/L 4 hr (rat)

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Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Naphtha (petroleum), heavy	300-2000 mg/kg	> 2 mL/kg (Nyúl)	>5,2 mg/L
aromatic			-
Pseudocumene	3280 mg/kg (Rat)	3160 mg/kg (Rabbit)	18 g/m³ (Rat) 4 h
Xylenes	3500 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	11 mg/l (Rat) 4 h
Cumene	1400 mg/kg (Rat)	3160 mg/kg (Rabbit)	> 17,6 mg/L (Rat) 4 h

Skin corrosion/irritation Serious eye damage/eye irritation Moderately irritating (rabbit). Mildly irritating (rabbit).

Sensitization

Sensitizer

Chronic toxicity

Cypermethrin: Long-term exposure caused neurotoxicity (body tremors, decreased motor

activity), decreased body weight and increased liver and spleen weight.

Mutagenicity

Cypermethrin: Not genotoxic in laboratory studies.

Carcinogenicity

No information available.

Reproductive toxicity **Developmental toxicity** STOT - single exposure STOT - repeated exposure Cypermethrin: No toxicity to reproduction in animal studies.

Cypermethrin: Not teratogenic in animal studies.

May cause respiratory irritation. May cause drowsiness and dizziness.

May cause damage to organs through prolonged or repeated exposure. See listed target

organs below.

Neurological effects

Cypermethrin: Cause clinical signs of neurotoxicity (body tremors, decreased motor activity

and impaired gait) following acute, subchronic or chronic exposure.

Target organ effects

Symptoms

Central Nervous System.

Signs of toxicity in laboratory animals included hypertonicity, ataxia, lethargy, convulsions, gasping, salivation, dyspnea, and alopecia. Large doses of cypermethrin ingested by laboratory animals produced signs of toxicity including loss of motor control, tremors, decreased activity, urinary incontinence, incoordination, increased sensitivity to sound and

convulsions.

Aspiration hazard

Potential for aspiration if swallowed. May be fatal if swallowed and enters airways.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

The environmental impact of this product has not been fully investigated.

ermethrin (52315-07-8)				
Active Ingredient(s)	Duration	Species	Value	Units
-	72 h EC50	Algae	> 0,1	mg/L
	21 d NOEC	Crustacea	0,04	μg/L
	21 d NOEC	Fish	0,03	μg/L
	96 h NOEC	Algae	1,3	mg/L
	96 h LC50	Rainbow trout	0,92	μg/L
	48 h EC50	Daphnia magna	1,86	μg/L

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Naphtha (petroleum), heavy	72 h EC50: = 2,5 mg/L	96 h LC50: = 1740 mg/L (Lepomis	48 h EC50: = 0,95 mg/L (Daphnia
aromatic	(Skeletonema costatum)	macrochirus) static 96 h LC50: = 19	magna)
		mg/L (Pimephales promelas) static	
		96 h LC50: = 2,34 mg/L	
		(Oncorhynchus mykiss) 96 h LC50:	
		= 41 mg/L (Pimephales promelas)	
		96 h LC50: = 45 mg/L (Pimephales	
		promelas) flow-through	
Cypermethrin	>0,1 mg/L	0,69 ug/L (96 h); 0,015 ug/L (21 d)	0,14 ug/L (48 h); 0,01 ug/L (21d)
Pseudocumene	-	96 h LC50: 7,19 - 8,28 mg/L	48 h EC50: = 6,14 mg/L (Daphnia
		(Pimephales promelas) flow-through	magna)

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			*C131011 Z
Xylenes	-	96 h LC50: 13,1 - 16,5 mg/L	48 h LC50: = 0,6 mg/L (Gammarus
		(Lepomis macrochirus) flow-through	lacustris) 48 h EC50: = 3,82 mg/L
		96 h LC50: 13,5 - 17,3 mg/L	(water flea)
		(Oncorhynchus mykiss) 96 h LC50:	
		2,661 - 4,093 mg/L (Oncorhynchus	
		mykiss) static 96 h LC50: 23,53 -	
		29,97 mg/L (Pimephales promelas)	
		static 96 h LC50: 30,26 - 40,75	
		mg/L (Poecilia reticulata) static 96 h	
		LC50: 7,711 - 9,591 mg/L (Lepomis	
		macrochirus) static 96 h LC50: =	
		13,4 mg/L (Pimephales promelas)	
		flow-through 96 h LC50: = 19 mg/L	
		(Lepomis macrochirus) 96 h LC50:	
		= 780 mg/L (Cyprinus carpio)	
		semi-static 96 h LC50: > 780 mg/L	
		(Cyprinus carpio)	
Cumene	72 h EC50: = 2,6 mg/L	96 h LC50: 6,04 - 6,61 mg/L	48 h EC50: 7,9 - 14,1 mg/L
	(Pseudokirchneriella subcapitata)	(Pimephales promelas) flow-through	(Daphnia magna) Static 48 h EC50:
		96 h LC50: = 2,7 mg/L	= 0,6 mg/L (Daphnia magna)
		(Oncorhynchus mykiss) semi-static	
		96 h LC50: = 4,8 mg/L	
		(Oncorhynchus mykiss)	
		flow-through 96 h LC50: = 5,1 mg/L	
		(Poecilia reticulata) semi-static	

12.2. Persistence and degradability

Cypermethrin: Moderately persistent. Not easily hydrolyzed. Not easily biodegradable.

12.3. Bioaccumulative potential

Cypermethrin: The substance has a potential for bioconcentration.

Chemical name	Partition coefficient
Naphtha (petroleum), heavy aromatic	2,9 - 6,1
Pseudocumene	3,63
Xylenes	2,77 - 3,15
Cumene	3.7

12.4. Mobility in soil

Mobility in soil

Cypermethrin: Immobile. Not expected to reach groundwater.

12.5. Results of PBT and vPvB assessment

None of the ingredients in the product meets the criteria for being PBT or vPvB.

12.6. Other adverse effects

No other adverse effects relevant to the environment are known.

Chemical name	EU - Endocrine Disrupters	EU - Endocrine Disruptors -	Japan - Endocrine Disruptor
	Candidate List	Evaluated Substances	Information
Cypermethrin	Group III Chemical	-	-

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused products

Remaining quantities of the material and empty but unclean packaging should be regarded as hazardous waste. Dispose of as hazardous waste in compliance with local and national regulations. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do

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not discharge to sewer systems.

Contaminated Packaging

Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions. It is recommended to consider possible ways of disposal in the following order:

- 1. Reuse or recycling should first be considered. Reuse is prohibited except by the authorisation holder. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge rinsing water to sewer systems.
- 2. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.
- 3. Delivery of the packaging to a licensed service for disposal of hazardous waste.
- 4. Disposal in a landfill or burning in open air should only occur as a last resort. For disposal in a landfill containers should be emptied completely, rinsed and punctured to make them unusable for other purposes. If burned, stay out of smoke.

Section 14: TRANSPORT INFORMATION

IMDG/IMO

14.1 UN/ID no UN3351

14.2 Proper Shipping Name Pyrethroid pesticide, liquid, toxic, flammable

 14.3 Hazard class
 6,1 (3)

 14.4 Packing Group
 III

 14.5 Marine Pollutant
 Yes

 Environmental Hazard
 Yes

 14.6 Special Provisions
 None

 EmS No.
 F-E, S-D

14.7 Transport in bulk according to The product is not transported in bulk by ship.

Annex II of MARPOL 73/78 and the

IBC Code

<u>RID</u>

14.1 UN/ID no UN3351

14.2 Proper Shipping Name Pyrethroid pesticide, liquid, toxic, flammable

14.3 Hazard class 6,1 (3) **14.4 Packing Group** III

Description

14.5 Environmental Hazard Yes

14.6 Special ProvisionsDo not release to the environment

ADR/RID

14.1 UN/ID no UN3351

14.2 Proper Shipping Name Pyrethroid pesticide, liquid, toxic, flammable

14.3 Hazard class 6,1 (3)
14.4 Packing Group

Description UN3351, Pyrethroid pesticide, liquid, toxic, flammable (Cypermethrin and

Naphthapetroleum)

14.5 Environmental Hazard Yes

14.6 Special ProvisionsDo not release to the environment

ICAO/IATA

14.1 UN/ID no UN3351

14.2 Proper Shipping Name Pyrethroid pesticide, liquid, toxic, flammable

14.3 Hazard class6,1 (3)14.4 Packing GroupIII14.5 Environmental HazardYes

14.6 Special ProvisionsDo not release to the environment

Revision date: 2019-05-12 Version 2

Section 15: REGULATORY INFORMATION

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

European Union

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not Applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

DANGEROUS FOR THE ENVIRONMENT

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not Applicable

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Naphtha (petroleum), heavy aromatic 64742-94-5	X	X	X		X	X	X	Х
Cypermethrin 52315-07-8			Х		Х	X	Х	Х
Pseudocumene 95-63-6	Х	Х	Х	Х	Х	Х	Х	Х
Xylenes 1330-20-7	Х	Х	Х	Х	Х	Х	Х	Х
Cumene 98-82-8	Х	Х	Х	Х	Х	Х	Х	Х

15.2. Chemical safety assessment

A chemical safety assessment is not required to be included for this product.

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under sections 2 and 3

H301 - Toxic if swallowed

H304 - May be fatal if swallowed and enters airways

H332 - Harmful if inhaled

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

H312 - Harmful in contact with skin

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

Revision date: 2019-05-12

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<u>Legend</u>

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: CAS (Chemical Abstracts Service)

Ceiling: Maximum limit value:

DNEL: Derived No Effect Level (DNEL)

EINECS: EINECS (European Inventory of Existing Chemical Substances)

GHS: Globally Harmonized System (GHS)

IATA: International Air Transport Association (IATA)
ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods (IMDG)

LC50: LC50 (lethal concentration)

LD50: LD50 (lethal dose)

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

STEL: Short term exposure limit

SVHC: Substances of Very High Concern for Authorization:

TWA: time weighted average

vPvB: very Persistent and very Bioaccumulative

Classification procedure

Test data

Calculation method

Key literature references and sources for data

Data measured on the product are unpublished company data. Data on ingredients are available from published literature and can be found several places.

Revision date: 2019-05-12

Reason for revision: SDS sections updated.

Training Advice This material should only be used by persons who are made aware of its hazardous

properties and have been instructed in the required safety precautions.

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End of Safety Data Sheet