

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

CICLOPE

Version: 0

Revision date: 25/01/18



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SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: CICLOPE
Product number: HS-7228
Registry number: 310 PC
Composition: Clodinafop-Propargyl 9.5% p/v.

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

HERBICIDE.

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **Industrias AFRASA, S.A.**
Address: CIUDAD DE SEVILLA 53. POL.IND. FUENTE DEL JARRO
City: PATERNA
Province: VALENCIA
Telephone: 961321700
Fax: 961321716
E-mail: afrasa@afrasa.es
Web: www.afrasa.es

1.4 Emergency telephone number: National Toxicology Center (Romania): +40 021-318 36 36 (24 hours)
Industrias Afrasa, S.A. +34 96 132 17 00 (Only available during office hours)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008:

Aquatic Chronic 2 : Toxic to aquatic life with long lasting effects.

Asp. Tox. 1 : May be fatal if swallowed and enters airways.

Eye Irrit. 2 : Causes serious eye irritation.

Skin Sens. 1 : May cause an allergic skin reaction.

STOT RE 2 : May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:



Signal Word:

Danger

H statements:

H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

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P statements:

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands and face thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or a doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P337+P313 If eye irritation persists: Get medical advice/attention.
P391 Collect spillage.
P501 Dispose of contents/container according to local or national regulations.

EUH statements:

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

Contains:

Cloquintocet mexyl tec.
clodinafop-propargil (ISO)
Hydrocarbons, C10, aromatics, <1% naphthalene

SP1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

SPe3: To protect aquatic organisms respect an unsprayed buffer zone of 15 meters to surface water bodies.

2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	specific concentration limit
EC No: 918-811-1 Registration No: 01-2119463583-34-XXXX	Hydrocarbons, C10, aromatics, <1% naphthalene	25 - 75 %	Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 STOT SE 3, H336	-
Index No: 607-194-00-1 CAS No: 108-32-7 EC No: 203-572-1 Registration No: 01-2119537232-48-XXXX	propylene carbonate	10 - 25 %	Eye Irrit. 2, H319	-
Index No: 607-625-00-3 CAS No: 105512-06-9	clodinafop-propargil (ISO)	8.5 - 10.5 %	Acute Tox. 4 *, H302 - Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) STOT RE 2 *, H373** - Skin Sens. 1, H317	Skin Sens. 1, H317: C ≥ 0,001 %

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CAS No: 99607-70-2 EC No: 619-447-3	Cloquintocet mexyl tec.	1.5 - 3.5 %	Aquatic Acute 1, H400 - Aquatic Chronic 1, H410 - Skin Sens. 1, H317	-
EC No: 932-231-6 Registration No: 01- 2119560592-37-XXXX	Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	1 - 3 %	Aquatic Chronic 3, H412 - Eye Dam. 1, H318 - Skin Irrit. 2, H315	-
CAS No: 104-76-7 EC No: 203-234-3 Registration No: 01- 2119487289-20-XXXX	[1] 2-Ethyl-1-hexanol	1 - 2 %	Eye Irrit. 2, H319	-
CAS No: 128-37-0 EC No: 204-881-4 Registration No: 01- 2119565113-46-XXXX	[1] 2,6-di-tert-butyl-p-cresol	0.75 - 1.25 %	Aquatic Chronic 1, H410 (M=1)	-

(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

** See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[1] Substance with a Community workplace exposure limit (see section 8.1).

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

Eye contact.

If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. **NEVER** use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. **NEVER** induce vomiting.

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

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate. Can cause allergic reactions.

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

SECTION 5: FIREFIGHTING MEASURES.

The product does not present any particular risk in case of fire.

5.1 Extinguishing media.

Recommended extinguishing methods.

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

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5.2 Special hazards arising from the mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

Avoid contact with the skin, eyes and clothing. To avoid the risk of exposure to product contamination, protective equipment must be worn during work or whenever there is a risk of direct exposure. Do not eat food, drink or smoke while using the product. At the end of work and before breaks, wash your hands and face with plenty of soap and water. Protective equipment must be washed separately from ordinary clothing. Do not contaminate water, food, feed, seeds and their packaging. The product will be kept away from children, sick people, pregnant women or nursing mothers, the elderly and other unauthorized persons and in the animal access areas.

6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

Code	Description	Qualifying quantity (tonnes) for the application of	
		Lower-tier requirements	Upper-tier requirements
E2	ENVIRONMENTAL HAZARDS - Hazardous to the Aquatic Environment in Category Chronic 2	200	500

7.3 Specific end use(s).

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Agricultural herbicide for professional use.
Uses of the product indicated in the label.
Use reserved for farmers and professionals users.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
2-Ethyl-1-hexanol	104-76-7	European Union [1]	Eight hours	1	5,4
			Short term		
2,6-di-tert-butyl-p-cresol	128-37-0	United Kingdom [2]	Eight hours		10
			Short term		

[1] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

[2] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
propylene carbonate CAS No: 108-32-7 EC No: 203-572-1	DNEL (Workers)	Inhalation, Long-term, Local effects	20 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	176 (mg/m ³)
2-Ethyl-1-hexanol CAS No: 104-76-7 EC No: 203-234-3	DNEL (Workers)	Inhalation, Long-term, Systemic effects	53,2 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Systemic effects	2,3 (mg/m ³)
	DNEL (Workers)	Inhalation, Acute, Local effects	106,4 (mg/m ³)
	DNEL (General population)	Inhalation, Acute, Local effects	53,2 (mg/m ³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	23 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	11,4 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	1,1 (mg/kg bw/day)
2,6-di-tert-butyl-p-cresol CAS No: 128-37-0 EC No: 204-881-4	DNEL (Workers)	Inhalation, Long-term, Systemic effects	3,5 (mg/m ³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
2-Ethyl-1-hexanol CAS No: 104-76-7 EC No: 203-234-3	aqua (freshwater)	0,017 (mg/L)
	aqua (marine water)	0,0017 (mg/L)
	aqua (intermittent releases)	0,17 (mg/L)
	PNEC STP	10 (mg/L)
	sediment (freshwater)	0,28 (mg/kg sediment dw)
	sediment (marine water)	0,028 (mg/kg sediment dw)
	soil	0,047 (mg/kg soil dw)

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	oral (Hazard for predators)	55 (mg/kg food)
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PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %		
Uses:	HERBICIDE.		
Breathing protection:			
PPE:	Filter mask for protection against gases and particles.		
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.		
CEN standards:	EN 136, EN 140, EN 405		
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.		
Observations:	Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.		
Filter Type needed:	A2		
Hand protection:			
PPE:	Protective gloves against chemicals.		
Characteristics:	«CE» marking, category III.		
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420		
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.		
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.		
Material:	PVC (polyvinyl chloride)	Breakthrough time (min.):	> 480
		Material thickness (mm):	0,35
Eye protection:			
PPE:	Protective goggles with built-in frame.		
Characteristics:	«CE» marking, category II. Eye protector with built-in frame for protection against splashing liquid, dust, smoke, fog and vapour.		
CEN standards:	EN 165, EN 166, EN 167, EN 168		
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.		
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.		
Skin protection:			
PPE:	Protective clothing.		
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.		
CEN standards:	EN 340		
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.		
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.		
PPE:	Work footwear.		
Characteristics:	«CE» marking, category II.		
CEN standards:	EN ISO 13287, EN 20347		
Maintenance:	This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.		
Observations:	Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident		

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Transparent liquid.

Colour: Dark yellow

Odour: Characteristic

Odour threshold: N.A./N.A.

pH: 4.5 (1%)

Melting point: N.A./N.A.

Boiling Point: N.A./N.A.

Flash point: 68 °C

Evaporation rate: N.A./N.A.

Inflammability (solid, gas): N.A./N.A.

Lower Explosive Limit: N.A./N.A.

Upper Explosive Limit: N.A./N.A.

Vapour pressure: N.A./N.A.

Vapour density: N.A./N.A.

Relative density: 0.9611 g/cm³

Solubility: N.A./N.A.

Liposolubility: N.A./N.A.

Hydrosolubility: : Insoluble in water, although the preparation forms homogeneous, stable emulsions

Partition coefficient (n-octanol/water): Clodinafop-propargyl: Kow Log P = 3.9, Cloquintocet-mexyl: Kow Log P = 5.20

Auto-ignition temperature: N.A./N.A.

Decomposition temperature: N.A./N.A.

Viscosity: 2.84 cP

Explosive properties: Not explosive

Oxidizing properties: Not oxidizing

N.A./N.A. = Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Pour point: N.A./N.A.

Blink: N.A./N.A.

Kinematic viscosity: 2.96 cSt

N.A./N.A. = Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid any improper handling.

10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

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SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT PREPARATION. Splatters in the eyes can cause irritation.

11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Splatters in the eyes can cause irritation and reversible damage.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
2-Ethyl-1-hexanol CAS No: 104-76-7 EC No: 203-234-3	Oral	LD50	Rat	3290 mg/kg bw [1]
	Dermal			[1] OECD Guideline 401 (Acute Oral Toxicity)
		LD50	Rabbit	1970 mg/kg bw [1]
	Inhalation	LC50	Rat	> 0.89 <= 5.3 mg/L air (4 h) [1]
				[1] OECD Guideline 403 (Acute Inhalation Toxicity)

a) acute toxicity;

Name	Acute toxicity			
	Type	Test	Kind	Value
CICLOPE	Oral	LD50	Rat	5000 mg/kg bw
	Dermal	LD50	Rat	>2000 mg/kg bw
	Inhalation	LC50	Rat	>5.300 mg/L air (4 h)

b) skin corrosion/irritation;

Based on available data, the classification criteria are not met.

c) serious eye damage/irritation;

Product classified:

Eye irritation, Category 2: Causes serious eye irritation.

d) respiratory or skin sensitisation;

Product classified:

Skin sensitizer, Category 1: May cause an allergic skin reaction.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Not conclusive data for classification.

h) STOT-single exposure;

Based on available data, the classification criteria are not met.

i) STOT-repeated exposure;

Product classified:

Specific target organ toxicity following a repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure.

j) aspiration hazard;

Product classified:

Aspiration toxicity, Category 1: May be fatal if swallowed and enters airways.

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SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
CICLOPE	Fish	LC50	Lepomis macrochirus	0.2144 mg as/L (96 h)
		NOEC	Oncorhynchus mykiss	0.10 mg as/L (21 d)
	Aquatic invertebrates	EC50	Crassostrea virginica	0.77 mg as/L (96 h)
		NOEC	Daphnia magna	0.10 mg as/L (22 d)
	Aquatic plants	EbC50/ErC50	Scenedesmus subspicatus (new name: Desmodesmus subspicatus) Chlorella emersonii	> 1.6
		EC50	Lemna Gibba	> 1.4 (14 d)
	Avian	LD50	Bobwhite Quail	1363 mg/kg bw (Oral)
		LD50	Mallard duck	> 1874 mg/kg bw (Oral)
	Bees	LD50	-	> 97.3 mg/bee contact (24h)
		LD50	-	40.9 mg/bee oral (24h)
	Worms	LC50	-	197 mg/kg

Name	Ecotoxicity			
	Type	Test	Kind	Value
2-Ethyl-1-hexanol	Fish	LC50	Leuciscus idus melanotus	17.1 mg/L (96 h) [1]
		[1] EU Method C.1 (Acute Toxicity for Fish) Cited as Directive 84/449/EEC, C.1 ("Acute toxicity for fish")		
	Aquatic invertebrates	EC50	Daphnia magna	27.4 mg/L (24 h) [1]
		[1] A mathematical model was established to calculate the acute toxicity of 57 chemicals to Daphnia magna (IC50, 24h), taking into account vectors of connectivity, Van der Waals volume, and electronegativity.		
CAS No: 104-76-7 EC No: 203-234-3	Aquatic plants	EC50	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	11.5 mg/l (72 h) [1]
		NOEC	Chlorella emersonii	10 mg/l (48 h) [2]
		[1] EU Method C.3 (Algal Inhibition test) EEC 88/302 C.3 [2] Biological effects of solvent extraction chemicals on aquatic organisms, J Chem Technol Biotechnol 29, 249-259		

12.2 Persistence and degradability.

In animals, hydrolysed to the corresponding acid, which is excreted in urine and faeces. In plants, rapidly degraded to the acid derivative as major metabolite.

12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

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Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
propylene carbonate N. CAS: 108-32-7 EC No: 203-572-1	-0,41	-	-	Very low
clodinafop-propargil (ISO) N. CAS: 105512-06-9 EC No:	3,9	-	-	Moderate
2-Ethyl-1-hexanol N. CAS: 104-76-7 EC No: 203-234-3	2,73	-	-	Low

12.4 Mobility in soil.

Clodinafop-propargil, in soil, undergoes rapid degradation to the free acid (DT50<2 h) and then further to phenyl and pyridine moieties, which are bound to the soil and mineralised. The free acid is mobile in soil, but is further degraded with DT50 5-20 d; in practice, there is a negligible leaching potential.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

SECTION 13 DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

Waste classification according to the European Waste Catalogue:

02 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING

02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing

02 01 08 agrochemical waste containing hazardous substances

Waste classified as hazardous.

Method of treatment according to Directive 2008/98/EC:

Disposal

D10 Incineration on land

Containers completely emptied must not be released into the environment. Rinse vigorously three times each package you use, pour the wash water to spray tank. This package once-use empty its contents, is a toxic waste so the user is required to deliver at the point of receipt of the integrated management system or to the dealer where the product was purchased.

SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading

Air: Transport by plane: ICAO/IATA.

Transport document: Airway bill.

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14.1 UN number.

UN No: UN3082

14.2 UN proper shipping name.

Description:

ADR: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HYDROCARBONS AROMATICS, C10 / CLODINAFOP-PROPARGIL), 9, III

IMDG: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HYDROCARBONS AROMATICS, C10 / CLODINAFOP-PROPARGIL), 9, III, MARINE POLLUTANT

ICAO: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. HYDROCARBONS AROMATICS, C10 / CLODINAFOP-PROPARGIL), 9, III

14.3 Transport hazard class(es).

Class(es): 9

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

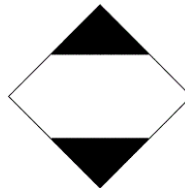
Marine pollutant: Yes

14.6 Special precautions for user.

ADR LQ: 5 L

IMDG LQ: 5 L

ICAO LQ: 30 kg B



Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-F

Proceed in accordance with point 6.

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

The product is not transported in bulk.

Note: ADR Limited Quantities Exemption: Combined packages with a total weight not greater than 30 kg are exempt provided that each individual package do not exceed 5 liter.

Additional information: In accordance with special provision 375, the material transported in individual packages or mixed packagings, if the individual packaging or the inner packaging of the combined packagings contains not more than 5 liters of net material, is not subject to the ADR regulations, Provided that the packaging complies with the requirements of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 of the ADR Agreement.

SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): E2

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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SECTION 16: OTHER INFORMATION.

Cause of revision and modifications with respect to the previous version: Initial.

Complete text of the H phrases that appear in section 3:

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Classification codes:

Acute Tox. 4 : Acute toxicity (Oral), Category 4
Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1
Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1
Aquatic Chronic 2 : Chronic effect to the aquatic environment, Category 2
Aquatic Chronic 3 : Chronic effect to the aquatic environment, Category 3
Asp. Tox. 1 : Aspiration toxicity, Category 1
Eye Dam. 1 : Serious eye damage, Category 1
Eye Irrit. 2 : Eye irritation, Category 2
STOT RE 2 : Specific target organ toxicity following a repeated exposure, Category 2
STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3
Skin Irrit. 2 : Skin irritant, Category 2
Skin Sens. 1 : Skin sensitiser, Category 1

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
BCF: Bioconcentration factor.
CEN: European Committee for Standardization.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Code for Dangerous Goods.
LC50: Lethal concentration, 50%.
LD50: Lethal dose, 50%.
Log Pow: Logarithm of the partition octanol-water.
NOEC: No observed effect concentration.
PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

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Regulation (EU) 2015/830.
Regulation (EC) No 1907/2006.
Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.