



A-Cypermethrin 50 g/L EC

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 24/09/2004

Revision date: 21/01/2014

Supersedes: 20/06/2013

Version: 7.0

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

1.1. Product identifier

Product form : Mixture
Product name : A-Cypermethrin 50 g/L EC
Product code : CA721441

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Pesticide
Agriculture.
Use of the substance/mixture : Insecticide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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Rue de Renory, 26/1
B-4102 Ougrée - Belgium
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info@agriphar.com - <http://www.agriphar.com>

1.4. Emergency telephone number

Emergency number : +32 (0)4 385 97 11 (8h - 16h35)
112 (European Emergency Number)

Country	Organisation/Company	Address	Emergency number
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn B - 1120 Brussels	+32 70 245 245
Worldwide	WHO	http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/index.html	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226
Acute Tox. 4 (Oral) H302
Eye Dam. 1 H318
STOT SE 3 H335
STOT SE 3 H336
Asp. Tox. 1 H304
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

R10
Xn; R22
Xi; R36/37
N; R50/53
Xn; R65
R66
R67
Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



CLP Signal word

: Danger

Hazard statements (CLP)

: H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H318 - Causes serious eye damage
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

: P102 - Keep out of reach of children
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P261 - Avoid breathing vapours
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective clothing, protective gloves
P310 - Immediately call a POISON CENTER or doctor/physician
P331 - Do NOT induce vomiting
P501 - Dispose of contents/container to National regulations
EUH066 - Repeated exposure may cause skin dryness or cracking
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

EUH phrases

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Solvent		>= 80	R10 Xi; R37 Xn; R65 R66 R67 N; R51/53
A-cypermethrin (ISO)	(CAS No)67375-30-8 (EC no)257-842-9 (EC index no)607-422-00-X	5,2 - 6,3	T; R25 Xn; R48/22 Xi; R37 N; R50/53
Name	Product identifier	Specific concentration limits	
A-cypermethrin (ISO)	(CAS No)67375-30-8 (EC no)257-842-9 (EC index no)607-422-00-X	(0,00025 =< C < 0,0025) R52/53 (0,0025 =< C < 0,025) N;R51/53 (0,025 =< C) N;R50/53	
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Solvent		>= 80	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
A-cypermethrin (ISO)	(CAS No)67375-30-8 (EC no)257-842-9 (EC index no)607-422-00-X	5,2 - 6,3	Acute Tox. 3 (Oral), H301 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)

Full text of R- and H-phrases: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. In all cases of doubt, or when symptoms persist, seek medical advice.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Immediately get medical attention.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry extinguishing powder. Carbon dioxide (CO ₂). Water fog.
Unsuitable extinguishing media	: High power water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable.
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5.3. Advice for firefighters

Precautionary measures fire	: No naked lights. No smoking.
Firefighting instructions	: Evacuate and limit access. Use water spray jet to protect personnel and to cool endangered containers.
Protection during firefighting	: Wear full chemical protective clothing. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Other information	: Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: When leaks or spills occur, only properly protected personnel should remain in the area.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. In case of insufficient ventilation, wear suitable respiratory equipment.
Emergency procedures	: Evacuate area. Provide adequate ventilation to minimize dust and/or vapour concentrations. Call in an expert. Eliminate every possible source of ignition.

6.1.2. For emergency responders

Protective equipment	: Wear a self-contained breathing apparatus and chemical protective clothing.
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6.2. Environmental precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Prevent spreading in sewers. Impound and recover large spill by mixing it with inert granular solids.
Methods for cleaning up	: Collect spills and put it into appropriated container.
Other information	: Special danger of slipping by leaking/spilling product.

6.4. Reference to other sections

Exposure controls/personal protection. Disposal considerations.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not allow to enter into surface water or drains.
- Handling temperature : at room temperature
- Hygiene measures : Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground well. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
- Storage conditions : Protect against direct sunlight.
- Incompatible products : Strong acid. Strong bases. Oxidizing agents, strong.
- Maximum storage period : 2 year(s)
- Storage area : Keep container tightly closed in a cool, well-ventilated place. Provide for retaining containers, eg. floor pan without outflow.
- Packaging materials : Keep only in the original container. Keep locked up.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Solvent		
Belgium	Limit value (ppm)	19 ppm
Belgium	Short time value (mg/m ³)	100 mg/m ³
France	VME (mg/m ³)	150 mg/m ³

8.2. Exposure controls

- Personal protective equipment : Gloves. Gas mask. Safety glasses.



- Hand protection : Wear suitable gloves resistant to chemical penetration. NBR (Nitrile rubber). For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
- Eye protection : Face shield. Chemical goggles or safety glasses.
- Skin and body protection : Skin protection appropriate to the conditions of use should be provided.
- Respiratory protection : If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
- Environmental exposure controls : Notify authorities if product enters sewers or public waters.
- Other information : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear.
Colour	: yellowish.
Odour	: Aromatic.
Odour threshold	: No data available
pH	: 5,33
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 38 °C
Self ignition temperature	: 454 - 464 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,901 g/ml (20°C)
Solubility	: (1% in water): Emulsion.
Log Pow	: No data available
Viscosity, kinematic	: 6 cSt
Viscosity, dynamic	: No data available
Explosive properties	: not explosive.
Oxidising properties	: not oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

When exposed to heat, may decompose liberating hazardous gases.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions. Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

Protect against direct sunlight. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Strong acid. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

A-Cypermethrin 50 g/L EC	
ATE (oral)	500,000 mg/kg bodyweight
Solvent	
LD50 oral rat	3492 mg/kg
LD50 dermal rat	> 3160 mg/kg
LC50 inhalation rat (mg/l)	> 6193 mg/m ³
A-cypermethrin (ISO) (67375-30-8)	
LD50 oral rat	57 mg/kg

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A-cypermethrin (ISO) (67375-30-8)	
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 0,593 mg/l/4h
ATE (oral)	100,000 mg/kg bodyweight

Skin corrosion/irritation	: Not classified pH: 5,33
Serious eye damage/irritation	: Causes serious eye damage. pH: 5,33
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Solvent	
LC50 fishes 1	9,2 mg/l (96h Oncorhynchus mykiss)
EC50 Daphnia 1	3,2 mg/l (48h Daphnia magna)
ErC50 (algae)	2,9 mg/l (72h Pseudokirchneriella subcapitata)
NOEC (chronic)	2,14 mg/l (21d Daphnia magna)

A-cypermethrin (ISO) (67375-30-8)	
LC50 fishes 1	2,8 µg/l (96h Oncorhynchus mykiss)
EC50 Daphnia 1	0,3 µg/l (48h Daphnia magna)
ErC50 (algae)	> 0,1 mg/l
NOEC (chronic)	0,03 µg/l (34d Pimephales promelas)

12.2. Persistence and degradability

Solvent	
Persistence and degradability	Easily biodegradable (concerning to the criteria of the OECD).
Biodegradation	78 % (28d OECD 301F)

A-cypermethrin (ISO) (67375-30-8)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

A-cypermethrin (ISO) (67375-30-8)	
BCF fish 1	1204 (Oncorhynchus mykiss)
Log Pow	5,5 (20°C)
Log Kow	6,42

12.4. Mobility in soil

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Surface tension	32 mN/m

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of this material and its container to hazardous or special waste collection point.
Additional information	: 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). Notify authorities if product enters sewers or public waters.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No (ADR)	: 1993
UN-No.(IATA)	: 1993
UN-No. (IMDG)	: 1993

14.2. UN proper shipping name

Proper Shipping Name	: FLAMMABLE LIQUID, N.O.S.
Transport document description	: UN 1993 FLAMMABLE LIQUID, N.O.S. (solvent, surfactant), 3, III, (D/E)

14.3. Transport hazard class(es)

Class (UN)	: 3
Classification code (UN)	: F1
Class (IATA)	: 3
Class (IMDG)	: 3
Hazard labels (UN)	: 3



14.4. Packing group

Packing group (UN)	: III
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14.5. Environmental hazards

Dangerous for the environment	: Yes
Marine pollutant	: Yes



Other information	: No supplementary information available.
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14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.)	: 30
Classification code (UN)	: F1
Orange plates	:



Special provision (ADR)	: 274, 601, 640E
Transport category (ADR)	: 3
Tunnel restriction code	: D/E
Limited quantities (ADR)	: 5L
LQ	: LQ07
Excepted quantities (ADR)	: E1

14.6.2. Transport by sea

No additional information available

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14.6.3. Air transport

CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
PCA packing instructions (IATA)	: 355
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA max net quantity (IATA)	: 60L
PCA Excepted quantities (IATA)	: E1

14.6.4. Inland waterway transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

Seveso Information :

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information

Indication of changes:

	For mixture	Modified	
	Revision date	Modified	
	Supersedes	Modified	
	EmS-No. (Spillage)	Modified	
	UN-No. (IMDG)	Modified	
	UN-No.(IATA)	Modified	
	Class (ADN)	Added	
	UN-No.(ADN)	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Hazard statements (CLP)	Modified	
2.2	EUH phrases	Modified	
3	Composition/information on ingredients	Modified	
9.1	Flash point	Modified	
9.1	Oxidising properties	Added	
9.1	Explosive properties	Added	
9.1	Viscosity, kinematic	Added	
11.1	ATE (oral)	Added	
12.4	Surface tension	Added	
14.1	UN-No (ADR)	Modified	
14.2	Proper Shipping Name	Modified	
14.6	Instruction "cargo" (ICAO)	Removed	
14.6	Instruction "passenger" (ICAO)	Removed	
14.6	Instruction "passenger" - Limited quantities (ICAO)	Removed	
14.6	Limited quantities (ADR)	Added	
14.6	Special provision (ADR)	Added	

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Full text of R-, H- and EUH-phrases::

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H318	Causes serious eye damage
H335	May cause respiratory 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
R10	Flammable
R22	Harmful if swallowed
R25	Toxic if swallowed
R36/37	Irritating to eyes and respiratory system
R37	Irritating to respiratory system
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
N	Dangerous for the environment
T	Toxic
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product