

# AMBUSH

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Revision date: 19/09/2011

Supersedes: 09/05/2011

Version: 9.1

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

#### 1.1. Product identifier

Trade name : AMBUSH  
Product code : /  
Synonyms : Cypermethrin 100 g/L EC

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use  
Industrial/Professional use spec. : Insecticide

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

/

#### 1.4. Emergency telephone number

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

Country	Official advisory body	Address	Emergency number
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
Worldwide	WHO	<a href="http://www.who.int/ipcs/poisons/centre/directory/en/">http://www.who.int/ipcs/poisons/centre/directory/en/</a>	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Xn; R22  
Xn; R65  
Xi; R36/37/38  
N; R50/53  
R10  
R67

Full text of R-phrases: see section 16.

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols :



Xn - Harmful



N - Dangerous for the environment

Hazardous ingredients :

Solvent

R-phrases :

R10 - Flammable.  
R22 - Harmful if swallowed.  
R36/37/38 - Irritating to eyes, respiratory system and skin.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 - Harmful: may cause lung damage if swallowed.  
R67 - Vapours may cause drowsiness and dizziness.

S-phrases :

S24 - Avoid contact with skin.  
S46 - If swallowed, seek medical advice immediately and show this container or label.  
S60 - This material and its container must be disposed of as hazardous waste.  
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

#### 2.3. Other hazards

No additional information available

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Solvent	(CAS No.) 64742-95-6 (EC no) 265-199-0 (EC index no) 649-356-00-4 (REACH-no) 01-2119455851-35	>= 80	Xn; R65 Xi; R37 N; R51/53 R10 R66 R67
Cypermethrin cis/trans +/- 40/60	(CAS No.) 52315-07-8 (EC no) 257-842-9 (EC index no) 607-421-00-4	10 - 15	Xn; R20/22 Xi; R37 N; R50-53

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Solvent	(CAS No.) 64742-95-6 (EC no) 265-199-0 (EC index no) 649-356-00-4 (REACH-no) 01-2119455851-35	>= 80	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Cypermethrin cis/trans +/- 40/60	(CAS No.) 52315-07-8 (EC no) 257-842-9 (EC index no) 607-421-00-4	10 - 15	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

### 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

Symptoms/injuries after inhalation	: difficulties of breathing. Gastrointestinal complaints. Nausea. Dizziness. Excessive concentrations may cause nervous system depression, headache, and weakness leading to unconsciousness.
Symptoms/injuries after skin contact	: Tingling/irritation of the skin. Erythema (reddening).
Symptoms/injuries after eye contact	: Tears. Conjunctival redness.
Symptoms/injuries after ingestion	: gastro-intestinal ailment. Abdominal pain, nausea. vomiting. Depression of the central nervous system.
Chronic symptoms	: Irritating to eyes, respiratory system and skin. Symptoms of overexposure to vapours include drowsiness, weakness, headache, dizziness, nausea, vomiting, dimming of vision.

#### 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 (CO2). Water fog.
Unsuitable extinguishing media	: High power water jet.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable.
Reactivity	: When exposed to heat, may decompose liberating hazardous gases.

#### 5.3. Advice for firefighters

Precautionary measures fire	: No naked lights. No smoking.
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Firefighting instructions	: Evacuate and limit access. Use water spray/stream to protect personnel and to cool endangered containers.
Protection during firefighting	: Wear chemical resistant suit. If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus 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.

##### 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. Eliminate ignition sources. Provide adequate ventilation to minimize dust and/or vapour concentrations. Call in an expert.

##### 6.1.2. For emergency responders

Protective equipment : Wear a self-contained breathing apparatus and chemical resistant suit.

#### 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 : High slip hazard because of leaking or spilled product.

#### 6.4. Reference to other sections

Exposure controls/personal protection. Disposal considerations.

### 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 empty into drains or the aquatic environment.

Handling temperature : at room temperature

Hygiene measures : Do no 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 eat, drink or smoke and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground well. Use explosion-protected machinery, apparatus, suction equipment, appliances etc.

Storage conditions : Protect from direct sunlight.

Incompatible products : Strong acid. Strong bases. Oxidizing agents, strong.

Maximum storage period : 3 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 (64742-95-6)		
Belgium	Limit value (ppm)	19 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
France	VME (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>

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### 8.2. Exposure controls

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



Hand protection : Wear suitable gloves resistant to chemical penetration. NBR (Nitrile rubber). In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Eye protection : Face protection 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 suction or ventilation measures are not possible or are insufficient, protective breathing apparatus 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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : yellow.

Odour : Aromatic.

Odour threshold : No data available

pH : 5,3 (1%)

Melting point : No data available

Solidification point : No data available

Boiling point : No data available

Flash point : 44,2 °C

Relative evaporation rate (butylacetate=1) : No data available

Flammability (solid, gas) : No data available

Explosive limits : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 0,912 g/ml

Solubility : Water: Emulsion.

Log Pow : No data available

Log Kow : No data available

Self ignition temperature : 465 °C (+/- 5°C)

Decomposition temperature : No data available

Viscosity, kinematic : 1,24 mm<sup>2</sup>/s (40°C)

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : 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 from direct sunlight. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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### 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 (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Harmful: may cause lung damage if swallowed.

AMBUSH	
LD50 oral rat	1850 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 3,37 mg/l/4h

Cypermethrin cis/trans +/- 40/60 (52315-07-8)	
LD50 oral rat	287 mg/kg
LD50 dermal rat	> 2000
LC50 inhalation rat (mg/l)	3,28 mg/l/4h

Solvent (64742-95-6)	
LD50 oral rat	3492 mg/kg
LD50 dermal rat	> 3160 mg/kg
LC50 inhalation rat (mg/l)	> 6193 mg/m <sup>3</sup>

Irritation : Irritating to eyes, respiratory system and skin.

pH: 5,3 (1%)

Corrosivity : Not classified

pH: 5,3 (1%)

Sensitisation : Not classified

Repeated dose toxicity : Not classified

Carcinogenicity : Not classified

Mutagenicity : Not classified

Reproductive toxicity : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

AMBUSH	
LC50 fishes 1	< 1 mg/l (96h)
EC50 Daphnia 1	< 1 mg/l (48h)

Cypermethrin cis/trans +/- 40/60 (52315-07-8)	
LC50 fishes 1	0,0028 mg/l (96h; Salmo gairdneri)
EC50 Daphnia 1	0,0003 mg/l (48h; Daphnia magna)
ErC50 (algae)	> 0,1 mg/l (96h; Selenastrum capricornutum)
NOEC (chronic)	0,00003 mg/l (34d; Pimephales promelas)

Solvent (64742-95-6)	
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)

### 12.2. Persistence and degradability

Cypermethrin cis/trans +/- 40/60 (52315-07-8)	
Persistence and degradability	Not readily biodegradable.

Solvent (64742-95-6)	
Persistence and degradability	Easily biodegradable (concerning to the criteria of the OECD).
Biodegradation	78 % (28d OECD 301F)

### 12.3. Bioaccumulative potential

Cypermethrin cis/trans +/- 40/60 (52315-07-8)	
BCF fishes 1	1204 mg/l (Salmo gairdneri)
Log Pow	5,3 - 5,6 (25°C)

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### 12.4. Mobility in soil

#### AMBUSH

Surface tension : 30,6 mN/m (25°C)

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## 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 allow agent or/and its container to leak into waters. (Do not clean release apparatus in the direct vicinity of surface waters/Avoid indirect entry into farmyard gullies or road gullies). Notify authorities if product enters sewers or public waters.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

UN-No. : 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. (CONTAINS Solvent naphtha (petroleum), light aromatic(64742-95-6)), 3, III, (D/E)

### 14.3. Transport hazard class(es)

Class (UN) : 3  
Hazard labels (UN) : 3



### 14.4. Packing group

Packing group (UN) : III

### 14.5. Environmental hazards

Marine pollutant :



Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

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



Tunnel restriction code : D/E  
Limited quantities (ADR) : LQ07  
Excepted quantities (ADR) : E1

#### 14.6.2. Transport by sea

EmS-No. (1) : F-E  
EmS-No. (2) : S-E

#### 14.6.3. Air transport

Instruction "cargo" (ICAO) : 366/220L

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Instruction "passenger" (ICAO) : 355/60L  
Instruction "passenger" - Limited quantities (ICAO) : Y344/10L

### 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 Annex XVII restrictions

Contains no REACH candidate substance

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

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 2	H411

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

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard 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
Flam. Liq. 3	Flammable liquids Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
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.
R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R50	Very toxic to aquatic organisms.
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.
R53	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.

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.*