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**! SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Name of product** CBM 8 MV**1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended intended purpose(s)**

insecticides, acaricides and products against other arthropods

biocides

biocide against arthropods (e.g. insects, spiders and shellfish)

**1.3. Details of the supplier of the safety data sheet****Manufacturer/distributor**

Hysolv Ltd.

53 Lethbridge Road, GB- BA5 2FW Wells, Somerset

Phone 0778 357 1778 or 0786 780 7330

E-Mail [info@hysolv.com](mailto:info@hysolv.com)Internet [www.hysolv.com](http://www.hysolv.com)**1.4. Emergency telephone number****Emergency advice**for healthcare professionals: [www.toxbase.org](http://www.toxbase.org)

Members of the public should contact their general practitioner or telephone NHS 111(England), NHS 24 (Scotland) or NHS Direct (Wales).

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**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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**Aquatic Acute 1****H400****Aquatic Chronic 1****H410****Hazard Statements**

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**Additional hints**

Classification and labelling are based on the results of toxicological tests carried out on the product.

Health and environment hazards: calculation procedure annex I, part 3,4 and 5.

Classification of the product: Art. 9 and criteria of (EU) No. 1272/2008: Physical hazards: evaluation of test data according annex I, part 2.

**2.2. Label elements**

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

GHS09

**Signal word**

Warning

**Hazard Statements**

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P261 Avoid breathing aerosol.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
P284 [In case of inadequate ventilation] wear respiratory protection.  
P391 Collect spillage.

**Special rules for supplemental label elements for certain mixtures**

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

**2.3. Other hazards**

No information available.

**! SECTION 3: Composition/ information on ingredients****3.1. Substances**

not applicable

**3.2. Mixtures****Description**

ZW-mixture of EW (emulsion in water) and CS (capsule suspension).

**! Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
23031-36-9	245-387-9	prallethrin (ISO)	1,1	Acute Tox. 3, H331 / Acute Tox. 4, H302 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
39515-40-7	254-484-5	Cyphenothrin	10,72	Acute Tox. 4, H302 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

If threatening unconsciousness, position and transport in recovery position  
In the event of persistent symptoms receive medical treatment.

#### In case of inhalation

Ensure of fresh air.  
Remove casualty from area of danger.

#### In case of skin contact

In case of contact with skin wash off with water.  
Take off contaminated clothes and shoes immediately and wash before wearing again.

#### In case of eye contact

Remove contact lenses, keep eye lids open and rinse with plenty of clean and fresh water for at least 15 min.

#### In case of ingestion

Do not induce vomiting.  
Call for a doctor immediately.  
Do not administer anything to unconscious persons.

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

No information available.

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

No information available.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Foam  
Dry fire-extinguishing substance  
Carbon dioxide  
Water spray jet

#### Unsuitable extinguishing media

Full water jet

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

In case of fire, release of: carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), nitrogen oxide (NO<sub>x</sub>).

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.  
Wear protective suit.

#### Additional information

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Follow safety advices (see chapter 7,8).

#### For emergency responders

Use personal protective equipment (see chapter 8).

### 6.2. Environmental precautions

When seeping into waters, ground or drainage system inform the authorities.

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

### 6.3. Methods and material for containment and cleaning up

Dam spilled material with non-combustible absorbent material (e. g. sand, soil, kieselguhr, Vermiculite) and collect in suitable containers for disposal according to local rules (see chapter 13).

### 6.4. Reference to other sections

No information available.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Keep container tightly closed.

#### Hygiene measures

Do not inhale vapours.

At work do not eat, drink and smoke.

Take off contaminated and soaked clothing immediately and wash before wearing again.

Keep away from food, beverages and feeding stuff.

Wash hands before breaks and after work.

#### Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

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

#### Requirements for storage rooms and vessels

Keep only in original container.

Keep opened containers carefully closed and store in upright position to avoid leakage.

Keep container tightly closed and store at a cool, well ventilated place.

#### Advice on storage compatibility

Do not store with acids.

Do not store together with oxidizing agents.

#### Further information on storage conditions

Protect from frost.

Transport and store in upright position.

**Storage group** 10

**7.3. Specific end use(s)**  
No information available.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**  
No information available.

### 8.2. Exposure controls

#### Respiratory protection

Environment-independent breathing apparatus.

Breathing protection is required when the tolerance limits are exceeded.

Full mask (DIN EN 136), type of filter / device: combined filter A-B, brown/grey.

#### Hand protection

Follow the instructions and information of the glove producer concerning the use, storage, care and change of gloves.

In case of skin contact the use of gloves according to EN 374 offers sufficient protection.

The protective glove should be tested for its suitability to the specific working site (e. g. mechanic resistance, product compliance, antistatic).

Protective gloves should be replaced immediately in case of damage or wearing out. Working procedures should be created so that gloves don't have to be worn constantly.

#### Eye protection

Safety glasses with side-shields conforming to EN 166.

#### Other protection measures

chemical resistant working clothes

## SECTION 9: Physical and chemical properties

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

#### Appearance

liquid

#### Colour

white

#### Odour

characteristic

#### Odour threshold

not determined

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>	6 - 8	20 °C			
<b>boiling point</b>	106 °C				
<b>Melting point / Freezing point</b>	not determined				
<b>Flash point</b>	> 100 °C				
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				

	Value	Temperature	at	Method	Remark
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	not determined				
<b>Self ignition temperature</b>	385 °C				
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	not determined				
<b>Relative density</b>	not determined				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>					dispersible
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	5,79 - 6,09				Value refers to Cyphenothrin.
<b>Decomposition temperature</b>	not determined				
<b>Viscosity kinematic</b>	168,45 mm <sup>2</sup> /s	40 °C			
<b>Oxidising properties</b> non oxidizing					
<b>Explosive properties</b> The product is not explosible.					
<b>9.2. Other information</b> No information available.					

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not corrosive on aluminium and steel.  
Corrosive to metals.

### 10.2. Chemical stability

No information available.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

In case of storing and handling the product according to the recommendations, the product is stable.

**10.5. Incompatible materials**
**Substances to avoid**

Acid  
 oxidizing agents

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	> 2000 mg/kg	rat	OECD 425	
<b>LD50 acute dermal</b>	> 5000 mg/kg	rat	OECD 402	
<b>LC50 acute inhalation</b>	> 5 mg/l (4 h)	rat	OECD 436	Value refers to Prallethrin.
<b>Skin irritation</b>	non-irritant	rat	OECD 404	
<b>Eye irritation</b>	non-irritant	rat	OECD 405	
<b>Skin sensitization</b>	non-sensitizing	mouse	OECD 442-B	

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Mutagenicity</b>				Based on available data, the classification criteria are not met.
<b>Reproduction-Toxicity</b>				Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>				Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**
**12.1. Toxicity**
**Ecotoxicological effects**

	Value	Species	Method	Validation
<b>Fish</b>	LC50 0,00034 mg/l (96 h)	fish		Value refers to Cyphenothrin.

	Value	Species	Method	Validation
<b>Daphnia</b>	EC50 0,00043 mg/l (48 h)	Daphnia magna		Value refers to Cyphenothrin.
<b>Algae</b>	EC50 > 0,014 mg/l (72 h)	algae		Value refers to Cyphenothrin.

### 12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>	Cyphenothrin and Prallethrin are not easily biodegradable.			

### 12.3. Bioaccumulative potential

log Pow Cyphenothrin: 5,79 - 6,09  
 log Pow Prallethrin: ca. 49

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

#### Behaviour in sewage plant

Don't let the product enter waters, sewers or sewage-treatment plants.

## ! SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste code No.

02 01 08\*

#### Name of waste

agrochemical waste containing hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

### ! Recommendations for packaging

Totally emptied packaging may be taken for recycling.

Packaging may not be reused.

#### General information

The waste treatment codes given are a recommendation. The final definition should be made in accordance with the local waste disposal.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	3082	3082	3082



	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA-DGR</b>
<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prallethrin, Cyphenothrin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N. O.S. (Prallethrin, Cyphenothrin)	Environmentally hazardous substance, liquid, n.o.s. (Prallethrin, Cyphenothrin)
<b>14.3. Transport hazard class(es)</b>	9	9	9
<b>14.4. Packing group</b>	III	III	III
<b>14.5. Environmental hazards</b>	Yes	Yes	Yes

**14.6. Special precautions for user**

No information available.

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

No information available.

**Land and inland navigation transport ADR/RID**

Hazard label(s) 9

Tunnel restriction code -

Classification code M6

**Marine transport IMDG**

MARINE POLLUTANT

**Transport/further information**

EmS: F-A, S-F

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**Other regulations (EU)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

Directive 2012/18/EU: the product is subject to Annex I, part 1, risk category: E1

**National regulations**

**Water hazard class** 3 Classification according to VwVwS

**15.2. Chemical Safety Assessment**

No information available.

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**SECTION 16: Other information****Further information**

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.0

**Sources of key data used**

EC-guideline 67/548/EC resp. 99/45/EC in the valid version.

Sources of data used for the definition of physical, toxicological and ecotoxicological data are directly named in the chapters.

Decree (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) in the valid version.

Lists of national indicative occupational exposure limit values according to the particular country and the valid version.

EC-guidelines 2000/39/EC, 2006/15/EC, 2009/161/EC.

Transport information according to ADR, RID, IMDG, IATA in the valid version.

- H302 Harmful if swallowed.
- H331 Toxic if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.