

1) IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**1.1 Product identifier:**

Product name: Envira Effect Spray

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

Insecticide

Manufacturer :

Name: Chrysamed Kimya San. Ve Dış. Tic. Ltd. Şti.

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Phone: +90 232 865 12 13

E-mail: info@chrysamed.com**Importer:**

Name : Envira GmbH

Address: A-5020 Salzburg Austria Karl-Emminger Str. 14-16

Phone: +43 662 621020

E-mail : www.envira.eu**1.1. Emergency telephone numbers:**

Austria 043 662 621020

Turkey +90 232 865 12 13

Turkey +90 114

2) HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic Category 2; H411

2.1.2 Additional information

For full text of Hazard and EU Hazard-statements: see SECTION 16.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008 [CLP]:****Hazard pictograms:****Signal word:** Unneeded

Hazard statements:

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 : Avoid release to the environment.

P391 : Collect spillage.

P501 : Dispose of contents/container.

2.3.Other hazards

No information.

3) COMPOSITION/INFORMATION ON INGREDIENTS**3.1.Substances****3.2.Mixtures**

Substance	CAS No	EINECS No	Concent . (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)
Cypermethrin cis/trans +/- 40/60	52315-07-8	257-842-9	%0,12	Acute Toxic Category 4*; H332 Acute Toxic Category 4*; H302 STOT SE Category 3; H335 Aquatic Acute 1; H400 (M=100) Aquatic Chronic Category 1; H410
Prallethrin	23031-36-9	245-387-9	0,03	Acute Tox. 4 H302, Acute Tox. 3 H331 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M-factor = 10
Isopropyl Alcohol	67-63-0	200-661-7	< %0,3	Flammable Liquid Category 2; H225 Eye irritation Category 2; H319 Single Exposure Category 3; H336
1-Heptanol, 2-propyl-, 7EO	160875-66-1	605-233-7	< %0,25	Acute Toxic Category 4*; H302 Eye Dam./Irr. 1, H318

The full text of all hazard statements are displayed in **section 16**.**4) FIRST AID MEASURES****4.1. Description of first aid measures****Inhalation:** If the person has difficulty to breathe, remove person to fresh air and at a rest in a position comfortable for breathing. If the problem persists, consult a doctor.**Ingestion:** Rinse your mouth. DO NOT induce vomiting. Immediately call a doctor.**Skin contact:** Wash your contaminated skin with water/shower for at least 15 minutes. Get medical attention if irritation persists.

Eye contact: Carefully rinse with water in several minutes. If the handle plugged in and do, remove contact lenses. Continue to rinse and get medical attention.

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

Inhalation: It is not intended to cause any discomfort.

Ingestion: It is not intended to cause any discomfort.

Skin contact: It is not intended to cause any discomfort.

Eye contact: It is not intended to cause any discomfort.

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

Treat symptomatically.

5) FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

This product is not flammable. Use foam, carbon dioxide or powder fire extinguisher case.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Fire causes formation of toxic gases. Carbon dioxide, carbon monoxide.

5.3. Advice for firefighters

Special firefighting methods:

If there is not a risk, remove the product from the fire area. Quench with an appropriate fire extinguisher.

Special protective equipment for firefighters:

Face protection, protective gloves and helmet. Wear self-contained breathing apparatus and appropriate protective clothing.

6) ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in **Section 8** of the Safety Data Sheet. Avoid breathing gas and avoid contact with eyes and skin.

6.2. Environmental precautions

Avoid to release to the environment. Dispose of contents/container.

6.3. Methods and material for containment and cleaning up

Small spillages: Clean with absorbent material.

Great spillages: Use dry sand or earth. Put contaminated waste into barrels/containers. Wash with water for a while to clear. Report immediately to authorities.

6.4. References to other sections

See **Section 11** for additional information on health hazards. See **Section 13** for waste disposal.

7) HANDLING AND STORAGE**7.1. Precautions for safe handling**

Read the instructions before use and follow the manufacturer's recommendations. Avoid contact with eyes. Avoid breathing the smoke. After handling wash hands thoroughly with soap and water. While using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Keep container at cool, dry and ventilated place. Keep away from food, drink and feed. Including direct sunlight, protect from light. Keep away from heat, sparks, open flames, oxidizer substance, strong acids and bases.

7.3. Specific end use(s)

The identified uses for this product are detailed in **Section 1.2**.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters*****Cypermethrin Technical 40/60 (52315-07-8):***

Compartments	PNEC Value
Fresh Water	0.001 µg/l
STP	1.63 mg/l
Soil	0.1 mg/kg soil dw

Isopropyl Alcohol (IPA) (67-63-0)

WEL TWA : 999 mg/m³

WEL TWA : 400 ppm

WEL STEL : 1250 mg/m³

WEL STEL : 500 ppm

8.2. Exposure controls

8.2.1. Appropriate Engineering Controls: Provide adequate ventilation. Observe Occupational Exposure Limits and do not breathe fumes. Provide eyewash station. Avoid direct contact and/or splash whenever possible. Product use training should be provided to personnel.

8.2.2. Individual protection measures, such as personal protective equipment:

Respiratory Protection: No specific recommendation made, but respiratory protection may be required under exceptional circumstances when excessive air pollution exist.

Hand Protection: If there is a skin contact risk, wear gloves made from protective plastics (EN 374)

Skin Protection: If there is a skin contact/splashing risk, wear chemical resistant clothes and shoes(EN 14605).

Eye Protection: When handling open containers, a full face mask or goggles should be used against the risk of splashing (EN 166).

Hygiene Measures: Remove contaminated clothes. Do not eat, smoke or drink while using the products.

9) PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	: White homogeneous liquid
Odor	: Odorless
Color	: White
Density (@25°C)	: 0.995 ± 0.05 g/ml
pH (25°C)	: 4-7
Flash point	: No information available
Melting Point	: No information available
Freezing Point	: No information available
Boiling Point	: No information available
Evaporation Rate	: No information available
Flammability	: Non-flammable
Upper / Lower Flammability	: No information available
Vapor Pressure	: No information available
Vapor density	: No information available
Log Pow	: No information available
Flammability	: No information available
Decomposition Temperature	: No information available
Viscosity	: No information available
Explosive	: Not explosive.
Oxidizing Properties	: Not explosive.
Viscosity	: No information available
Solubility	: Soluble in water

9.2. Other information

No additional information available.

10) STABILITY AND REACTIVITY**10.1. Reactivity**

No information.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use. Stable at prescribed storage conditions.

10.3. Possibility of hazardous reactions

No information.

10.4. Conditions to avoid

Do not expose to high temperatures or direct sunlight.

10.5. Incompatible materials

Strong oxidizer and alkaline substance.

10.6. Hazardous decomposition products

In case of fire; carbon dioxide (CO₂) or carbon monoxide (CO).

11) TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Acute toxicity:*****Cypermethrin Technical 40/60 (52315-07-8):***

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination
Oral	LD50	Equivalent to OECD 401	250 mg/kg bw - 1732 mg/kg bw		Rat	Experimental value
Dermal	LD50	Equivalent to OECD 402	> 2000 mg/kg bw		Rat	Experimental value
Inhalation (aerosol)	LC50	OECD 403	3.281 mg/l	4h	Rat (male)	Experimental value

Prallethrin (23031-36-9)

Acute LD50 rat – oral = 2500 mg/kg bw/day (OECD 423)

Acute LD50 rat – dermal > 2, 000 mg/kg bw (OECD 402)

Acute LC50 rat – inhalation > 0,465 mg/L (4h) (OECD 403)

Isopropyl Alcohol (iPA) (67-63-0)

LD50: >2000 mg/kg (Oral, Rat)

LD50: >2000 mg/kg (Skin, Rat)

LD50: >20 ml/L (Inhalation, Rat)

1-Heptanol, 2-propyl-, 7EO (160875-66-1)

LD50: 300-2000 mg/kg (Oral, Rat)

Inhalation: In high concentrations, the vapors may cause respiratory system, cough and irritated.

Ingestion: It may cause discomfort if swallowed.

Skin contact: It is not intended to cause any discomfort.

Eye contact: It is not intended to cause any discomfort.

Respiratory or skin sensitization : May cause skin sensitization.

Cypermethrin Technical 40/60 (52315-07-8):

Route of exposure	Result	Method	Exposure time	Species	Value determination
Skin	Not sensitizing	OECD 429		Mouse	Experimental value

Carcinogenicity :

Cypermethrin Technical 40/60 (52315-07-8):

Route of exposure	Parameter	Method	Value	Effect	Value determination
Unknown	NOAEL	Carcinogenic toxicity study	Carcinogenic toxicity study	No carcinogenic effect	Experimental value

Reproductive toxicity :

Cypermethrin Technical 40/60 (52315-07-8):

	Parameter	Method	Value	Species	Effect	Value determination
Developmental toxicity	NOAEL		> 70 mg/kg bw/day	Rat	No effect	Experimental value
Maternal toxicity	NOAEL		17.5 mg/kg bw/day	Rat	No effect	Experimental value
Effects on fertility	NOAEL	3 generation study	50 mg/kg bw/day	Rat	No effect	Experimental value

Mutagenicity (in vitro) :

Cypermethrin Technical 40/60 (52315-07-8):

Result	Method	Test substrate	Effect	Value determination
Negative	OECD 476	Mouse (lymphoma L5178Y cells)		Experimental value

Mutagenicity (in vitro) :

Cypermethrin Technical 40/60 (52315-07-8):

Result	Methot	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 474		Mouse	Bone marrow	Experimental value

Teratogenicity : No data available

Specific target organ toxicity :

Cypermethrin Technical 40/60 (52315-07-8):

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL	Subchronic toxicity test	12.5 mg/kg bw/day		No effect	90 day(s)	Dog	Experimental value
Dermal	NOAEL	Subacute toxicity test	20 ng/kg bw/day		No effect	21 day(s)	Rabbit	Experimental value

Aspiration toxicity : No data available.

12) ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1 Acute (short-term) toxicity:

Cypermethrin Technical 40/60 (52315-07-8):

	Parameter	Method	Value	Duration	Species	Value determination
Acute toxicity fishes	LC50	OECD 203	2.83 µg/l	96 h	Oncorhynchus mykiss	Experimental value
	NOEC	OECD 210	0.01 µg/l	28 day(s)	Pimephales promelas	Experimental value
Acute toxicity crustacea	EC50	OECD 202	4.71 µg/l	48 h	Daphnia magna	Experimental value
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 33 µg/l	96 h	Pseudokirchnerie lla subcapitata	Experimental value
	EbC50	OECD 201	> 33 µg/l	96 h	Pseudokirchnerie lla subcapitata	Experimental value
Long-term toxicity aquatic crustacea	EC50		0.35 µg/l	21 day(s)	Daphnia magna	Experimental value
	NOEC		0.04 µg/l	21 day(s)	Daphnia magna	Experimental value

	Parameter	Method	Value	Duration	Species	Value determination
Toxicity soil macro-organisms	EC50	OECD 207	100 mg/kg	14 day(s)	Eisenia fetida	Experimental value
	NOEC	OECD 222	5.2 mg/kg soil dw	8 week(s)	Eisenia fetida	Experimental value
Toxicity soil micro-organisms	EC50	OECD 209	163 mg/l	3 h	Activated sludge	Experimental value
	NOEC		52 mg/kg soil dw		Soil micro-organisms	Experimental value
Toxicity birds	LC50	OECD 205	> 1376 mg/kg bw/day	5 day(s)	Colinus virginianus	Experimental value
	NOEC	OECD 206	> 92 mg/kg bw/day	21 week(s)	Colinus virginianus	Experimental value

Prallethrin (23031-36-9)

LC₅₀ – for Fish : 0,0176 mg/l/96 h (Danio rerio) (OECD 203)

EC50 - for Crustacea 0,019 mg/l/48h (Daphnia magna) (OECD 202)

EC50 - for Algae / Aquatic Plants 4,9 mg/l/72h (Scenedesmus subspicatus) (OECD 201)

Chronic NOEC for Algae / Aquatic Plants 2,6 mg/l (Scenedesmus subspicatus) (OECD 201)

Isopropyl Alcohol (IPA) (67-63-0)

Leuciscus idus LC 50 Fish 1 : 8970 - 9280 mg/l

Daphnia magna EC50 Water Pir 1 : 9714 mg/l

Algae , 72 saat : EC50 72h Algae 1: > 1000 mg/l

1-Heptanol, 2-propyl-, 7EO (160875-66-1)

Daphnia Magna , 48 saat : EC50 > 10 - 100 mg/l

Scenedesmus subspicatus, 72 saat : EC50 (72 sa) > 10 - 100 mg/l

It contains substances classified as hazardous to the environment along with the contents to be harmful to aquatic organisms.

12.2. Persistence and degradability:

Cypermethrin Technical 40/60 (52315-07-8):

Biodegradation water

Method	Value	Duration	Value determination
OECD 301B: CO2 Evolution Test	0.6 % - 1.4 %	33 day(s)	Experimental value

Half-life soil (t_{1/2} soil)

Method	Value	Primary degradation/mineralisation	Value determination
	6 day(s) - 24 day(s)		Experimental value

Prallethrin (23031-36-9)

Solubility in water 4,98 mg/l (20°C) (OECD 105)

NOT rapidly degradable (OECD 301F)

Isopropyl Alcohol (IPA) (67-63-0)

Readily biodegradable.

12.3. Bioaccumulative potential:

Cypermethrin Technical 40/60 (52315-07-8):

BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFWIN	417			QSAR

Log Kow

Method	Remark	Value	Temperature	Value determination
		6.09		

Prallethrin (23031-36-9)

Partition coefficient: n-octanol/water > 2,78 (OECD 107)

BCF 46 L*kg wet fish (TGD, Part II: log BCF fish = 0.85 • log Kow – 0.70)

12.4. Mobility in soil:

Cypermethrin Technical 40/60 (52315-07-8):

(log) Koc

Parameter	Method	Value	Value determination
log Koc	OECD 106	4.91 - 5.76	Experimental value
		5.76 - 6.42	QSAR

Prallethrin (23031-36-9)

Partition coefficient: soil/water 3,12 (OECD 121)

12.5. Results of PBT and vPvB assessment: This substance cannot be evaluated as PBT or vPvB as it does not meet all of the criteria of endurance, bioaccumulation and toxicity screening.

12.6. Other adverse effects:

The possibility of thinning the ozone layer is not expected.

13) DISPOSAL CONSIDERATIONS

General Information: When handling waste, the safety precautions applicable to the use of the product should be observed. Product residues should be treated as special hazardous waste. The hazard level of waste containing this product must be evaluated according to applicable regulations. Disposal must be done by an authorized waste management firm in national and local regulations. Waste transportation is subject to ADR restrictions. International waste code is 15 01 10 (packaging contaminated with hazardous substance or containing residues).

13.1. Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions and local regulations.

14) TRANSPORT INFORMATION**14.1. UN Number (ADR/RID/ADN – IMDG – IATA)**

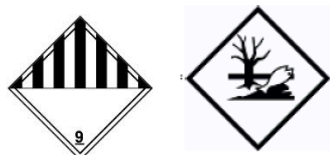
3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class (es) (ADR/RID/ADN – IMDG – IATA)

9

Transport Regulation:**14.4. Packing group (ADR/RID/ADN – IMDG – IATA)**

III

14.5. Environmental hazards

Environmentally Hazardous Substance / Marine Pollutant: Yes.

14.6. Special precautions for user

No information

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

No information

15) REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. Legislations:**

- ✓ Regulation (EC) No 1272/2008 of The European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging (CLP) of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- ✓ Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- ✓ European Agreement Concerning the International carriage of Dangerous Goods by Road (ADR)
- ✓ <http://echa.europa.eu/information-on-chemicals>

15.2 Chemical Safety Assessment:

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

16) OTHER INFORMATION**Legal warning:**

This information relates to a specific product and is not available for use in combination with any process or with any other material. Do not use on other application (s) without consulting the manufacturer. Information about the product in this Safety Data Sheet has been compiled from knowledge of the individual components. The data given here is based on current knowledge and experience. This Safety Data Sheet analyzes the product in terms of safety requirements and does not give any guarantee of the properties for the product. Usage of the information remains under the sole responsibility of the user.

Hazard statements:

- H225 Highly Flammable liquid and vapor
- H302 Harmful if swallowed.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation
- H331 Toxic if inhaled
- 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.

Abbreviations and acronyms:

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

RID: Regulations concerning the international railway transport of dangerous goods.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

IMDG: international Maritime Code for Dangerous Goods.

IATA: international Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances.

Concent.: Concentration of the substance.

LC50: Lethal concentration, 50 percent.

LD50: Lethal dose, 50 percent.

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: very Persistence and very Bioaccumulative.

STOT SE: Specific Target Organ Toxicity Single Exposure

STOT RE: Specific Target Organ Toxicity Repeated Exposure

Resources:

This SDS is prepared according to both the specific legislations on **Chapter 15** and the information provided by raw material suppliers.

Revision Comments:

The sds was written for the first time.

Date of update: -