Safety Data Sheet

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

1.1. Product identifier
Product name **EXIT100**

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use Pyrethroid insecticide in concentrated micro-emulsion. For domestic and civil use

1.3. Details of the supplier of the safety data sheet

Name	**COLKIM S.r.l.**
Full address	**Via Piemonte, 50**
District and Country	**40064 OZZANO EMILIA (BO)**
	Italia
	Tel. 051 / 799445
	Fax 051 / 797555
e-mail address of the competent person	
responsible for the Safety Data Sheet	**info@colkim.it**
Product distribution by:	**COLKIM S.r.l. - Via Piemonte, 50 - 40064 OZZANO E. (BO)**

1.4. Emergency telephone number
For urgent inquiries refer to **118**

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

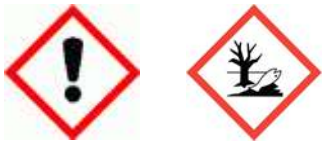
Hazard classification and indication:

Acute toxicity (oral), category 4	H302	Harmful if swallowed.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, acute toxicity, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, chronic toxicity, category 1	H410	Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning

Hazard statements:

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302+P352	IN CASE OF SKIN CONTACT: wash with plenty of water and soap.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P501	Dispose of contents and container according to national regulation

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

CYPERMETHRIN cis/trans +/- 40/60

CAS 52315-07-8	10.2	Acute Tox. 4 H302, Acute Tox. 4 H332, STOT SE 3 H335, Aquatic Acute 1 H400 M=1000, Aquatic Chronic 1 H410 M=1000
EC 257-842-9		
INDEX 607-421-00-4		

DIPROPYLENE GLYCOL (110-98-5)

CAS. 110-98-5	≥5
CE. 203-821-4	
INDEX. 01-2119456811-38	

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.
SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.
INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.
INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed
May cause an allergic skin reaction.

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

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture
HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters
GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions
The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up
Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections
Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling
Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities
Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.
Validity:2 years

Storage temperature:> -5 ° C

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

DIPROPYLENE GLYCOL (110-98-5)
Germany TRGS 900 threshold for professional exposure
(mg/m³)
67 mg/m³
Switzerland MAK (mg/m³) 360 mg/m³
Switzerland MAK (ppm) 100 ppm
Switzerland KZGW (mg/m³) 720 mg/m³ (max 4x15 min/day)
Switzerland KZGW (ppm) 200 ppm (max 4x15 min/day)

8.2. Exposure controls

HAND PROTECTION
Protect hands with category III work
EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
In case of insufficient ventilation, wear suitable respiratory equipment

ENVIRONMENTAL EXPOSURE CONTROLS
Do not disperse in the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid
Colour	white
Odour	characteristic
Odour threshold	N.A.
pH	4-5
Melting point / freezing point	N.A.
Initial boiling point	N.A.
Boiling range	N.A.
Flash point	> 79 °C
Evaporation Rate	N.A.
Flammability of solids and gases	N.A.
Lower inflammability limit	N.A.
Upper inflammability limit	N.A.
Lower explosive limit	N.A.
Upper explosive limit	N.A.
Vapour pressure	N.A.
Vapour density	N.A.
Relative density	0.98 g/ml
Solubility	emulsionable
Partition coefficient: n-octanol/water	N.A.
Auto-ignition temperature	385°C
Decomposition temperature	N.A.
Viscosity	65,4 mm2/s
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2. Other information

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

11.1. Information on toxicological effects

LC50 (Inhalation) of the mixture: > 5 mg/l/4h
LD50 (Oral) of the mixture: 300 - 2000 mg/kg
LD50 (Dermal) of the mixture:4000 mg/Kg

CYPERMETHRIN CIS/TRANS +/- 40/60 (52315-07-8)
LD50 (Oral) 500 mg/kg Rat
LD50 (Dermal) > 2000 mg/kg Rat
LC50 (Inhalation) 3,28 mg/l/4h Rat

DIPROPYLENE GLYCOL
LD50 (Oral) 5000 mg/kg Rat
LD50 (Dermal) 5000 mg/kg Rat

SKIN CORROSION / IRRITATION
Does not meet the classification criteria for this hazard class
pH: 4 – 5

SERIOUS EYE DAMAGE / IRRITATION
Does not meet the classification criteria for this hazard class
pH: 4 – 5

RESPIRATORY OR SKIN SENSITISATION
May cause an allergic skin reaction.

GERM CELL MUTAGENICITY
Does not meet the classification criteria for this hazard class

CARCINOGENICITY
Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY
Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE
Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE
Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD
Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

EXIT 100

LC50 – for Fish	0,0242 mg/l (96h)
EC50 *Daphnia Magna*	0,014 mg/l (48h)
ErC50 – Alghe	> 1000 mg/l/ (72h)

CYPERMETHRIN CIS/TRANS +/- 40/60 (52315-07-8)

LC50 - for Fish	0,0028 mg/l/96h Salmo Gairdneri
EC50 - for Crustacea	0,000004 mg/l Daphnia Magna
ErC50 – Alghe	> 0,1 mg/l/ (96h; Selenastrum capricornutum)
Chronic NOEC for Fish	0,00003 mg/l 34d, Pimephales Promelas
Chronic NOEC for Crustacea	0,00004 mg/l 21d, Dafnia Magna

DIPROPYLENE GLYCOL

LC50 - for Fish	>5000mg/l/96h

12.2. Persistence and degradability

DIPROPYLENE GLYCOL
Hardly biodegradable.

CIPERMETRINA CIS/TRANS +/- 40/60 (52315-07-8)
Hardly biodegradable.

12.3. Bioaccumulation potential.

DIPROPYLENE GLYCOL
Log Pow -1.07
No significant bioaccumulation occurs.

CIPERMETRINA CIS/TRANS +/- 40/60 (52315-07-8)

BCF	1204 mg/l (*salmo gairdneri*)
Log Pow	5,3 - 5,6 (25°C)

12.4. Mobility in soil
EXIT100

Surface tension :25,6 mN/m

12.5. Results of PBT and vPvB assessment
On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects
Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods
The transport of waste may be subject to ADR.
The recommended CER codes (which may vary according to use) are:
CER 16.03.05 * - Organic waste containing dangerous substances.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.
The recommended CER codes (which may vary according to use) are:
CER 15.01.10 * - Packaging containing residues of dangerous substances or contaminated by such substances.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA:	3082
ADR / RID:	In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.
IMDG:	In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.
IATA:	In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYPERMETHRIN)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYPERMETHRIN)
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYPERMETHRIN)

14.3. Transport hazard class(es)

ADR / RID:	Class: 9	Label: 9
IMDG:	Class: 9	Label: 9
IATA:	Class: 9	Label: 9

14.4. Packing group

ADR / RID, IMDG, IATA:	III

14.5. Environmental hazards

ADR / RID:	Environmentally Hazardous
IMDG:	Marine Pollutant
IATA:	Environmentally Hazardous

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special Provision: -		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Pass.:	Maximum quantity: 450 L	Packaging instructions: 964
	Special Instructions:	A97, A158, A197	

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

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 3

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisarion (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4(Inhalation: dust, mist)	Acute toxicity, category 4
Acute Tox. 4 (oral)	Acute toxicity, category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Skin Sens. 1	Skin sensitization, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament

9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.