

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.06.2016

Version number 1

Revision: 21.06.2016

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

- **1.1 Product identifier**
- **Trade name:** **TRIKA EXPERT**
- **Kind of formulation** Granule GR
- **1.2 Relevant identified uses of the substance or mixture and uses advised against insecticide**
- **Application of the substance / the mixture** Agriculture
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
OXON ITALIA S.P.A. - Via Sempione, 195 - 20016 PERO (MI) - ITALY
Telephone: + 39 02 353781 - Fax: +39 02 3390275
e-mail: infoSDS@oxon.it
- **Informing department:** Product safety department.
- **1.4 Emergency telephone number:**
+39 0371 5961
For POISON CENTRES see section 16

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS09 environment

- Aquatic Acute 1 H400 Very toxic to aquatic life.
- Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.
- **Additional information:** No data

- **2.2 Label elements**
- **Hazard pictograms**



GHS09

- **Signal word** Warning
- **Hazard statements**
H410 Very toxic to aquatic life with long lasting effects.
- **Precautionary statements**
P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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



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SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures

- **Description:** Mixture of the substances listed below with harmless additions.

- Dangerous components:

CAS: 64742-94-5 EINECS: 265-198-5	Hydrocarbons, C10-C13, aromatics, <1% naphthalene  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  STOT SE 3, H336	2.1%
CAS: 91465-08-6 ELINCS: 415-130-7	lambda-cyhalothrin  Acute Tox. 3, H301; Acute Tox. 2, H330;  Aquatic Acute 1, H400 (M=10000); Aquatic Chronic 1, H410 (M=10000);  Acute Tox. 4, H312	0.41%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General information

Instantly remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Show this safety data sheet to the doctor

- After inhalation

Supply fresh air or oxygen; call for doctor.



In case of unconsciousness bring patient into stable side position for transport.

- After skin contact



Instantly wash with water and soap and rinse thoroughly.

- After eye contact



Rinse opened eye for several minutes under running water. Then consult doctor.

- After swallowing



Do not induce vomiting; instantly call for medical help.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Information for doctor** no particular informations

- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂ extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
Can be released in case of fire
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained breathing apparatus.
Put on breathing apparatus.
- **Additional information**
Cool endangered containers with water spray jet.
Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Put on breathing apparatus.
Wear protective equipment. Keep unprotected persons away.
Bring persons out of danger.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle container with care.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store only in the original container.
Store the product in a cool and ventilated place, away from heat, sun exposure without sewers open
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.

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Protect from heat and direct sunlight.
 - **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
 The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
 The usual precautionary measures should be adhered to general rules for handling chemicals.
 Avoid contact with the eyes and skin.
 Do not inhale gases / fumes / aerosols.
 Take off immediately all contaminated clothing
 Wash hands during breaks and at the end of the work.
 Store protective clothing separately.
- **Breathing equipment:**
 In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- **Protection of hands:**
 Protective gloves.
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses recommended during refilling.
- **Body protection:** Use protective suit.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Granulate
Colour:	Dark brown
Odour:	Weak, characteristic

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- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
 - Melting point/Melting range:** Not applicable
 - Boiling point/Boiling range:** Not applicable
- **Flash point:** Not applicable
- **Inflammability (solid, gaseous)** Product is not inflammable.
- **Ignition temperature:**
 - Decomposition temperature:** not determined.
- **Self-inflammability:** Product is not selfigniting. (T higher than 400 °C)
- **Danger of explosion:** Product is not explosive.
- **Density** Not determined
- **Solubility in / Miscibility with Water:** Dispersible
- **Solvent content:** 15-20 %
- **Organic solvents:** 2 %
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50 (4 h)	>4.98 mg/l (rat)

91465-08-6 lambda-cyhalothrin

Oral	LD50	56 mg/kg (rat)
Dermal	LD50	632 mg/kg (rat)
Inhalative	LC50 (4 h)	0.066 mg/l (rat)

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 - **NOAEL (no observable adverse effect level)**
91465-08-6 lambda-cyhalothrin

Oral	NOEL (2y)	1.7 mg/kg bw/d (rat)
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	NOAEL	1y 0.5 mg/kg bw/day (dogs)
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 - **Primary irritant effect:**

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

 - **12.1 Toxicity**

 - **Aquatic toxicity:**

DAPHNIA: EC50 (48h)	89.5 mg/l (Daphnia magna)
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91465-08-6 lambda-cyhalothrin

NOEC	28-d 0.25 µg/l (Cyprinodon variegatus)
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FISH: LC50 (96h)	0.078 µg/l (leuciscus idus)
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DAPHNIA: EC50 (48h)	0.23 µg/l (Daphnia magna)
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ErC50 (72h)	5 µg/l (Pseudokirchneriella sub capitata)
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 - **12.2 Persistence and degradability** No further relevant information available.

 - **Environmental toxicity**
91465-08-6 lambda-cyhalothrin

oral LD50	0.91 µg/bee (bees)
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contact LD50	0.038 µg/bee (bees)
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LD50	> 3950 mg/kg bw (mallard duck)
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LC50 (14d)	soil > 1000 mg/kg (Earthworm)
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 - **12.3 Bioaccumulative potential** No further relevant information available.

 - **12.4 Mobility in soil**
91465-08-6 lambda-cyhalothrin

BCF	3635 (--)
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kfoc	lowest 38000 ml/g (--)
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Immobile in soil

 - **Ecotoxicological effects:**

 - **Remark:** Very toxic for fish

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- DT 50 (active ingredient)

91465-08-6 lambda-cyhalothrin

DT50	174.6 days (soil) Moderate to high persistence
	15.1 days (water) Rapid dissipation in water

- Additional ecological information:

- General notes:

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into soil.

- 12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.

- Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

- 14.1 UN-Number

- ADR, RID, ADN, IMDG, IATA UN3077

- 14.2 UN proper shipping name

- ADR/RID/ADN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

- IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Solvent naphtha (petroleum), heavy arom., lambda-cyhalothrin), MARINE POLLUTANT

- IATA

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

- 14.3 Transport hazard class(es)

- ADR/RID/ADN



- Class

9 (M7) Miscellaneous dangerous substances and articles.

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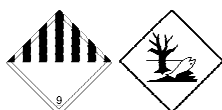
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 - **Label** 9

 - **IMDG, IATA**

 - **Class** 9 Miscellaneous dangerous substances and articles.
 - **Label** 9

 - **14.4 Packing group**
 - **ADR,RID,ADN, IATA** III

 - **14.5 Environmental hazards:** Product contains environmentally hazardous substances:
 lambda-cyhalothrin
 - **Marine pollutant:** Symbol (fish and tree)
 - **Special marking (ADR/RID/ADN):** Symbol (fish and tree)
 - **Special marking (IATA):** Symbol (fish and tree)

 - **14.6 Special precautions for user** Warning: Miscellaneous dangerous substances and articles.
 - **Kemler Number:** 90
 - **EMS Number:** F-A,S-F

 - **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

 - **Transport/Additional information:**

 - **ADR/RID/ADN**
 - **Excepted quantities (EQ):** E1
 - **Limited quantities (LQ)** 5 kg
 - **Transport category** 3
 - **Tunnel restriction code** E

 - **UN "Model Regulation":** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- **Water hazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information only concerns the above mentioned product. The information is to our best present knowledge. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

A list of European Poison Centres is available on

http://ec.europa.eu/growth/sectors/chemicals/poison-centres/index_en.htm

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- H phrases

- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H330 Fatal if inhaled.
- 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.

- Department issuing data specification sheet: OXON Italia S.p.A. - Product Safety Department**- Abbreviations and acronyms:**

- Acute Tox. 3: Acute toxicity – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Acute Tox. 2: Acute toxicity – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- Sources This MSDS has been prepared based on data provided by EC Regulation 1107/2009**- * Data compared to the previous version altered.**