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OXAMYL 100

SECTION 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1. Product identifier:

Trade name: OXAMYL 100
(Soluble Concentrate (SL))

1.2. Relevant identified uses of the mixture and uses advised against:

Relevant identified uses of the substance: Agriculture - Insecticide and Nematodecide

1.3 Details of the supplier of the safety data sheet:

SAPEC Agro, S.A.
Endereço: Av. do Rio Tejo, Herdade das Praias
2910-440 Setúbal
Telefone: 265 710 100
Fax: 265 710 105
E Mail: agroseguranca@agro.sapec.pt

1.4. Emergency telephone number:



SECTION 2. HAZARDS IDENTIFICATION (>)

2.1. Classification of the mixture:

According to classification rules of Regulation (EC) No 1272/2008: Acute Tox. 2: H300; Acute Tox. 3: H331; Aquatic Chronic 3: H412

Adverse physicochemical effects: Not Applicable

Adverse human health effects: Fatal if swallowed. Toxic if inhaled.

Adverse environmental effects: Harmful to aquatic life with long lasting effects.

2.2. Label elements:

According to Regulation (EC) No 1272/2008:

Hazard

pictogram(s):



Signal word(s):

Danger

Hazard

statement(s):

H300 - Fatal if swallowed;
H331 - Toxic if inhaled;
H412 - Harmful to aquatic life with long lasting effects;
EUH210 – Safety data sheet available on request;
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statement(s):

P102 - Keep out of reach of children;
P261 - Avoid breathing mist;
P261 - Avoid breathing vapours;
P264 - Wash hands and face thoroughly after handling;
P270 - Do not eat, drink or smoke when using this product;
P285 - In case of inadequate ventilation wear respiratory protection;
P301+P310 - IF SWALLOWED - Immediately call a POISON CENTER or doctor/physician;

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P304+P340+P310 - IF INHALED - Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician;
P321 - Specific treatment (see additional first aid instructions on this label);
P330 - Rinse mouth;
P391 - Collect spillage;
P403+P233 - Store in a well-ventilated place. Keep container tightly closed;
P501 - Dispose of contents/container in accordance with local/ regional/ national regulation.

Supplemental information: SP1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads);
SPe 3 - To protect aquatic organisms, not apply on agricultural land adjacent to surface waters;
SPe 5 - To protect birds and wild mammals;
SPo 2 - Wash all protective clothing after use.

2.3. Other hazards: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

This product is used by farmers and other applicators of plant protection products.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS (➤)

3.1. Substances: Not applicable

3.2. Mixtures:

Substance identifier			% (w/w)	Substance classification According to Regulation No 1272/2008	REACH Registration No
Name	CAS No	EC No			
Oxamyl (C ₇ H ₁₃ N ₃ O ₃ S)	23135-22-0	245-445-3 (EINECS) 006-059-00-9 (INDEX)	10	Acute Tox. 2: H330; Acute Tox. 2: H300; Acute Tox. 4: H312; Aquatic Chronic 2: H411	(*)

(*) Active substance for use in plant protection products only, regarded as being registered (Article 15(1) of Regulation 1907/2006)

Note: Full text of Hazard Statements not written out in full in this section, are referred in section 16.

SECTION 4. FIRST AID MEASURES (➤)

4.1. Description of first aid measures:

General measures: Seek medical advice immediately and call anti-poison center. If irregular breathing or haven't breathing, apply artificial respiration. Do not give anything by mouth to an unconscious person.

Contains N-methyl carbamate which inhibits cholinesterase. This product contains a cholinesterase inhibitor compound. Don't use if doctor advises not to work with such products.

Inhalation: In case of inhalation move the victim to fresh air. Control breathing and if necessary provide oxygen therapy or artificial respiration. Seek medical advice or anti-poison center.

Skin contact: In case of contact with skin take immediately off contaminated clothing, and wash immediately affected area with water and soap. In case of irritation of the skin or allergic reactions seek medical advice. After contact, signs poisoning skin seek medical advice immediately or anti-poison center. Wash contaminated clothing before reuse.

Eye contact: In case of contact with eyes, separate eyelids and rinse immediately with plenty of water for 15-20 minutes; do not forget to remove lens. Seek medical advice, if symptoms persist or develop.

Ingestion: Seek medical advice immediately and call anti-poison center. If swallowed, drink 1 or 2 glasses and try once and twice induce vomiting. Do not induce vomiting with victim conscious. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed: **Danger:** This product contains a cholinesterase inhibitor compound. Don't use if doctor advises not to work with such products. Do not exposure any other inhibitor until recovery is fully assured. **Symptoms:** Poisoning skin effects associated with anticholinesterase activity: blurred vision, difficulty breathing, difficulty thinking clearly, headache, weakness, muscle contraction, perspiration, pupil abuse, abdominal pain, nausea, vomiting.

4.3. Indication of any immediate medical attention and special treatment needed: Administrate atropine sulfate with antidote until complete atropinization. The 2-PAM can be used as an antidote in conjunction with atropine sulphate, but should not be used alone. Contraindication: Oximes (pralidoxime), succinylcholine and other cholinergic agents, respiratory stimulants and physostigmine. Morphine therapy is contraindicated.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media: Dry chemicals, carbon dioxide (CO₂), foam and water spray.

Unsuitable extinguishing media: Water jet.

5.2. Special hazards arising from the mixture: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion (carbon dioxide (CO₂), nitrogen oxides (NO_x)).

5.3. Advice for fire-fighters:

Protective measures: Evacuate all non essential persons from fire site. Fight fire from a protected location. Avoid inhalation of fumes (keep on windward side). Depending on fire location, it's preferable not to use water to prevent the risk of environmental contamination; if not possible, use spray water consciously. Use water spray to cool containers exposed to fire. Keep adequate measures to prevent environmental contamination. Dike fire control water, for later disposal. In case small fire, if the area is very exposed to fire and if have conditions, let the fire extinguish on its own because the water can increase the contaminated area. Cool containers / tanks by spraying with water.

Special protective equipment for fire-fighters: Use self-contained breathing apparatus and complete protective clothes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Avoid contact or inhalation of product.

For emergency responders: Isolate the spill area and limit the access to essential personnel. Use adequate protective clothes, gloves and protective mask with vapour filter. Eliminate any possible ignition source. Avoid contact or inhalation of product. Ventilate confined space before entry.

6.2. Environmental precautions: Prevent spills dispersion. Keep spills and cleaning runoff, out of sewers and open bodies of water. Block the leakage, if this operation doesn't implicate risks. If product has contaminated bodies of water, sewage system, or soil or vegetation, alert the local authorities.

6.3. Methods and material for containment and cleaning up: Cover entire spill with absorbing material or sand, collect it, avoiding producing dust, and place it in a container appropriate for later disposal. Avoid use of water for cleaning up.

6.4. Reference to other sections: See subsection 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling:

Use adequate protective equipment to avoid direct contact or inhalation of the product. Handle product in well ventilated areas if possible with emergency eyewash and safety shower.

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Eliminate any possible ignition source on handling and storing areas. A good personal hygiene is required.

Do not smoke, drink or eat while handling the product.

After handling, remove contaminated clothing and wash hands thoroughly with soap and water.

Keep personal protective equipment and contaminated clothing separate from other laundry; wash it separately.

Don't handle damaged package without adequate protective devices.

Keep the container tightly closed when the product is not in use.

7.2. Conditions for safe storage, including any incompatibilities:

Keep product only in the original container, tightly closed and labelled.

Store on fresh, dry and well ventilated place, protected from sunlight, heat and humidity.

Do not store near flame and heat sources.

Keep away from food, drink and animal feeding stuffs.

Keep children and public away from storage place.

Provide fire-fighting measures and electrostatic discharges protection devices, in storing areas.

Incompatible materials: Strong bases and acids

Temperature: >0 (Do not freeze)

7.3. Specific end use: The authorized on label

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (➤)

8.1. Control parameters:

Not applicable

8.2. Exposure controls:

Appropriate engineering controls: Ensure natural or mechanical ventilation, control of ignition sources, fire fighter measures and availability of shower / eyewash emergency in confined work areas.

Individual protection measures, such as personal protective equipment:

Eye/ face protection: Chemical goggles or safety glasses that assure complete shielding of eyes (EN 166).

Skin Protection: Apron or other protection clothes, gloves (nitrile, thickness: 0.4 - 0.7 mm, length: ≥ 35 cm, protection class: Class 6 and Operating time: 8 h) and plastic or rubber boots.

Respiratory Protection: Panoramic mask or half-mask with combined filter ABEK replace.

Thermal hazards: Not applicable

Environmental exposure controls: Avoid spill. Keep the product in proper storing conditions. Keep the containers closed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (➤)

9.1. Information on basic physical and chemical properties:

Physical State	Liquid
Colour	Dark green
Odour	Soft, sulphurous
Odour threshold	NA
pH	3.05 (10 g/l, 20°C)
Melting point/ freezing point	NA
Initial boiling point and boiling range	NA
Flash point	>100°C
Evaporation rate	NA
Flammability	Not flammable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	NA
Vapour density	NA

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Relative density	1.023 (25°C)
Solubility	Soluble in water
Partition coefficient n-octanol/water	NA
Auto-ignition temperature	Not auto-ignition
Decomposition temperature	NA
Viscosity	2 mPa.s (25°C, 30 rpm)
Explosive properties	Not explosive
Oxidising properties	Not oxidant
9.2. Other information:	
Miscibility	NA
Fat solubility	NA
Conductivity	NA
Gas group	Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity: No information available.

10.2. Chemical stability: Stable under normal use and storage conditions.

10.3. Possibility of hazardous reactions: No information available.

10.4. Conditions to avoid: Avoid storage in moist or hot conditions, and near of heat and ignition sources. Keep away from food, drinks and open bodies of water. Temperature: <0°C (protect from ice)

10.5. Incompatible materials: Strong bases and acids.

10.6. Hazardous decomposition products: Thermal decomposition or combustion may generate irritating and probably toxic gases (sulphur oxides).

SECTION 11. TOXICOLOGICAL INFORMATION (>)

11.1. Information on toxicological effects:

Acute toxicity:

Acute Oral LD ₅₀ :	39 mg/kg b.w. (Male and female Rats)
Acute Dermal LD ₅₀ :	>5000 mg/kg b.w. (Rabbits) (*)
Acute Inhalation LC ₅₀ (4h):	0.62 mg/l air (Rats)

Acute effects (*):

Skin corrosion/ irritation:	Not irritating (Rabbits)
Serious eye damage/irritation:	Not irritating (Rabbits)
Respiratory sensitisation:	No information available
Skin sensitisation:	Not sensitising (Guinea pigs)

Chronic effects (Oxamyl):

Germ cell mutagenicity:	Not observed
Carcinogenicity:	Not observed
Reproductive toxicity:	Not observed
STOT- single exposure:	Not demonstrated
STOT- repeated exposure:	Not demonstrated
Aspiration hazard:	No information available

(*) Based on available data, the classification criteria are not met.

Likely routes of exposure: Contact with skin, eyes, ingestion and inhalation.

Symptoms and effects: See subsection 4.2.

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SECTION 12. ECOLOGICAL INFORMATION (➤)

12.1 Toxicity:

Acute toxicity:

Fish acute LC ₅₀ (96 h):	27 mg/l (Rainbow trout)
Aquatic invertebrates acute EC ₅₀ (48 h):	3 mg/l (<i>Daphnia magna</i>)
Algae acute EC ₅₀ (72 h):	34 mg/l (<i>Pseudokirchneriella subcapitata</i>)
Birds acute Oral LD ₅₀ :	11 mg/kg b.w. (Bobwhite quail)
Bee oral LD ₅₀ :	2.60 µg/bee
Bee contact LD ₅₀ :	2.30 µg/bee
Aquatic plants CE ₅₀ (14 d):	NA

Chronic toxicity (Oxamyl):

Fish chronic NOEC (61 d)	0.77 mg/l (Rainbow trout)
Aquatic invertebrates chronic NOEC (21 d):	0.0268 mg /l (<i>Daphnia magna</i>)
Algae chronic NOEC (96 h):	0.5 mg/l

12.2. Persistence and degradability:

Not readily biodegradable. Estimate based on data obtained from active ingredients.

12.3. Bioaccumulative potential: Not bioaccumulative. Estimate based on data obtained from active ingredients.

12.4. Mobility in soil: May exist mobility, but leaching is mitigated by rapid degradation in viable agricultural soils

12.5. Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects: No information available.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Hazardous properties of waste (Regulation (EU) N° 1357/2014): HP 6 (Acute Toxicity); HP 14 (Ecotoxic).

Surplus disposal: Dispose in a safe manner in accordance with local/ national regulations. Avoid personnel exposure. Waste material code: 07 04 13* (Council Decision 2001/118/EC).

Containers disposal: Empty containers should be triple rinsed (or equivalent). Do not reuse product containers. Dispose of product containers, waste containers and residues in an authorised waste collection point. Containers should be closed and labelled. Waste material code packaging: 15 01 10* (Council Decision 2001/118/EC).

SECTION 14. TRANSPORT INFORMATION (➤)

14.1. UN number: 2992

14.2. UN proper shipping name:

ADR/RID: CARBAMATE PESTICIDE, LIQUID, TOXIC (contains: Oxamyl); 6.1; II; (D/E).

IMDG: CARBAMATE PESTICIDE, LIQUID, TOXIC (contains: Oxamyl); 6.1; II.

IATA: CARBAMATE PESTICIDE, LIQUID, TOXIC (contains: Oxamyl); 6.1; II.

14.3. Transport hazard class(es):

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

14.4. Packing group:

ADR/RID: II

IMDG: II

IATA: II

14.5. Environmental hazards:

ADR/RID: Dangerous for the environment.

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IMDG: Marine pollutant.

IATA: Dangerous for the environment.

14.6. Special precautions for user: Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable: the product is not transported in bulk.

Note: ADR/ RID/ IMDG/ IATA Limited Quantities Exemption: Combined packages with a total weight not greater than 30 kg are exempt provided each individual package do not exceed 100 ml.

SECTION 15. REGULATORY INFORMATION (➤)

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

Seveso III category: H2

15.2. Chemical safety assessment: Chemical safety assessment was not carried out for the mixture.

SECTION 16. OTHER INFORMATIONS

Content review: The sections / sub sections marked with (➤) were changed with relevant information, from the previous version.

Methods for evaluation of the information used for classification: Classification was assigned on the basis of classification data of a similar product (Reference MSDS: Vydate 10L (Supplier: DuPont Portugal, Unipessoal Lda))

Full text of Hazard Warnings mentioned and not written out in full in previous sections:

H312 - Harmful in contact with skin;

H411 - Toxic to aquatic life with long lasting effects

Consulted Data Bases:

ECHA: European Chemicals Agency;

FOOTPRINT (2007/2008) The FOOTPRINT Pesticide Properties DataBase; Database collated by the University of Hertfordshire as part of the EU-funded FOOTPRINT project (FP6-SSP-022704).

<http://www.eu-footprint.org/ppdb.html>;

AGRITOX - Base de données sur les substances actives phytopharmaceutiques;

EU Pesticide Database.

Literature references:

The e-Pesticide Manual, version 3.2 2005-06, Thirteenth Edition, Editor: CDS Tomlin;

Manual Toxicológico de Produtos Fitosanitários para Uso Sanitário - Instituto Nacional de Toxicologia / AEPLA (Associação Empresarial para la Protección de las Plantas (Espanha);

ADR 2015 Editor Tutorial; IMDG Code, 2014 Edition; IATA, 2014 Edition;

EFSA Scientific Report (2005) 26, 1-78, Conclusion on the peer review of oxamyl.

Glossary:

ADI: Acceptable Daily Intake

AOEL - Acceptable Operator Exposure Level

BCF: Bio-concentration factor

b.w.: Body weight

CAS: Chemical Abstract Service

DT₅₀: Time for 50% loss; half-life

EC₅₀: Medium Effective Concentration

LD₅₀: Medium Lethal Dose.

LC₅₀: Medium Lethal Concentration

NA: No data available

NOEL: No observed effect level

NOEC: No observed effect concentration

PBT: Persistent, bioaccumulative and toxic

TLV: Threshold Limit Value

TWA: Time Weighted Average

vPvB: Very persistent and very bioaccumulative

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

No liability will be accepted for any injury, loss or damage resulting from failure to take account of information or advice contained in this safety data sheet.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.