

European Commission

**Renewal Assessment Report of the Inclusion of the
Active Substance in Annex I of the
Regulation (EC) 1107/2009**



Oxamyl 10SL

**Volume 3 (CP)
ANNEX B.4 Further Information**

Rapporteur Member State: Italy
Co-Rapporteur Member State: France

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VERSION HISTORY

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B.4 FURTHER INFORMATION

Unless specifically indicated, all reports in this section are submitted to address mandatory data requirements for the approval of active substance.

B.4.1 Safety intervals and other precautions to protect humans, animals and the environment

Pre-harvest interval (in days) for each relevant crop

For full details of all uses, please refer to the GAP table (see the Oxamyl EU Renewal Dossier, Document D, Part 1, DuPont-40925 EU).

Table 1 Proposed pre-harvest intervals for Oxamyl 10SL

Crops	Proposed pre-harvest intervals
Tomato (greenhouses)	For tomato treated by drip irrigation, the minimum PHI is 28 days, and it is driven by last application made at 42 days after transplant.
Solarisation: Soil bed preparation in greenhouses designated for the growing of: Tomato, Cucurbits, Pepper, Aubergine, and plants nurseries of the mentioned crops	The minimum plant back interval for solarisation crops is 30 days after application.

Re-entry period (in days) for livestock, in areas to be grazed

Not relevant; Oxamyl 10SL is intended for use in green houses, thus areas where livestock are not grazing. Therefore, no re-entry period needs to be established for livestock.

Re-entry period (in hours or days) for man to crops, buildings or spaces treated

Oxamyl 10SL is applied directly into the soil by adding it to the irrigation system using a specific pump and injector. Therefore, the probability for workers to be exposed to the product after treatment is very low and does not justify the establishment of a re-entry period in the intended uses.

Oxamyl 10SL is classified as acute toxicity, Category 2 (oral) and 3 (inhalation); it is neither a primary irritant (eye or skin) nor a skin sensitiser. No claim of discomfort or injury was received from field investigators during the development period of this product nor during the commercial use in field crops for more than 30 years.

In addition, exposure modelling of field workers entering treated areas showed adequate margins of safety (see the Oxamyl EU Renewal Dossier, Document M-CP, Section 7, DuPont-42127 EU). Therefore, the establishment of a re-entry period in greenhouses to protect workers is not necessary.

Withholding period (in days) for animal feeding stuffs

There are no specific withholding periods, as there is no specific risk for livestock to access the treated area in greenhouses.

Waiting period (in days) between application and handling treated products

There are no specific waiting periods, as there is no specific risk for man.

Waiting period (in days) between application and sowing or planting succeeding crops

30 days following protected crops (as illustrated in DuPont-16693 following application of Oxamyl 10SL at 6 kg a.s./ha; see the Oxamyl EU Renewal Dossier, Document M-CA, Section 6, DuPont-40933 EU)

Information on any specific agricultural, plant health or environmental conditions under which the preparation may or may not be used

Oxamyl 10SL has to be applied directly to the soil *via* drip irrigation by landscape pipeline in protected crops. The drip irrigation water should not be discharged outside of the greenhouse.

Oxamyl 10SL should not be applied by any kind of foliar spray and in hydroponic (soil free) cultivations.

Oxamyl 10SL should not be applied by pivot systems or any other type of irrigation system that is not placed at or under the soil surface.

Oxamyl 10SL should not be applied to crops under physiological or water stress.

When using any oxamyl based product, the accumulated oxamyl rate of 3.0 (edible and inedible peel cucurbits), 4.0 (pepper), and 5.0 (tomato, aubergine) kg active substance per ha per crop cycle should not be exceeded.

B.4.2 Recommended methods and precautions

Procedures for cleaning application equipment and protective clothing

Use recommendations from product label.

Do not clean application equipment near surface water. Avoid contamination *via* drains from farmyards and roads.

Cleaning of the application system/irrigation system:

Oxamyl 10SL is a soluble concentrate formulation to be used *via* drip irrigation after water dilution. Oxamyl 10SL is to be added directly to the irrigation system using a specific pump and injector.

At the end of the irrigation cycle, the irrigation system should be cleaned by a flush of water and nutrient solution for 15 minutes.

The irrigation system shall not be connected to public irrigation systems and must be equipped with a valve to avoid backflow.

Cleaning of protective clothing:

There are no special procedures for cleaning equipment so it can be considered a normal procedure, assuring the cleaning of protective clothes. Any contamination on the outside of protective equipment should be removed by washing with clean water. Protective clothing should be washed using clean water followed by soaking in clean water with household ammonia (0.03%). Allow to stand for 15 minutes with occasional agitation before final rinsing in clean water. If water is used to clean the outside parts of equipment, formation of puddles and contamination of surface water courses has to be avoided.

User has to assure that the box is totally empty and has to dispose of contaminated boxes according to local law and preventing hazard to environment.

Application equipment should be rinsed thoroughly with water.

Effectiveness of the cleaning procedures

There is no need to validate a cleaning procedure for Oxamyl 10SL equipment; as described above, a standard cleaning procedure is acceptable and may consist of wiping or washing contaminated pipeline with water.

B 4.2/01

Study submitted to the EU for the first time in this submission.

Reference CP 4.2/01	Report:	<p>Peleshanko, S. (2015); Oxamyl 10L soluble concentrate formulation (DPX-D1410): Laboratory study of spray tank cleanout</p> <p>DuPont Report No.: DuPont-44045</p> <p>Guidelines: EU Commission Directive 94/37/EC, Annex III, Section 4.2: Procedures for Cleaning Application Equipment (July 1994)</p> <p>Deviations: None</p> <p>Testing Facility: Stine-Haskell Research Center, Newark, Delaware, USA</p> <p>Testing Facility Report No.: DuPont-44045</p> <p>GLP: No</p> <p>Certifying Authority: Laboratories in the USA are not certified by any governmental agency, but are subject to regular inspections by the U.S. EPA.</p>
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Executive summary:

A laboratory procedure was conducted to simulate the spray tank clean-out of Oxamyl 10SL (DPX-D1410). Results indicate that a double rinse clean-out procedure with a tank cleaner is effective.

I. MATERIALS AND METHODS

A. MATERIALS

Test material:	Oxamyl 10SL
Lot/Batch #:	D1410-569
Purity:	10.3%
Description:	Not reported
CAS#:	None for the formulation 23135-22-0 for oxamyl active substance
Stability of test compound:	Shown to be stable under the conditions of the test

B. STUDY DESIGN AND METHOD

The DuPont jar test protocol was used to evaluate the effectiveness of the recommended cleaning procedure.

A tank mix containing oxamyl at the maximum application rate of 20 L product/ha in 100 L/ha water, was prepared using CIPAC Standard Water D. After stirring, three 100-mL aliquots were poured into 4-oz (118-mL) polyethylene bottles, which were capped and allowed to stand at room temperature overnight.

Each polyethylene bottle was subjected to a standard cleanout:

1. The bottle was inverted and shaken to suspend any settled material, and the liquid was discarded.
2. 10 mL tap water was added, the bottle was shaken, and the rinsate was discarded.
3. Step 2 was repeated.

4. 10-mL aqueous methanol solution (methanol 5% v/v, acidified to pH = 3) was added to extract any residual oxamyl, and the bottle was shaken well.
5. The aqueous methanol solution was analysed for oxamyl.

II. RESULTS AND DISCUSSION

The concentration of oxamyl found in the aqueous methanol solution extract after the cleanout was 2.16 ppm. This represents less than 0.1% of the highest possible concentration in the spray tank. The results indicate that the cleanout procedure prescribed is effective.

III. CONCLUSION

Oxamyl was efficiently removed using two water washes as the cleanout procedure.

(Peleshanko, S., 2015)

RMS comments and conclusion: the study presented is considered acceptable.

Risks from recommended methods, precautions and procedures

Please refer to the safety data sheet for Oxamyl 10SL provided in Appendix 1.

Hazard identification

On the basis of available information, the product is not expected to produce any significant adverse health or environmental effects when the recommended use instructions are followed.

Handling

Good Industrial Practice in housekeeping and personal hygiene should be followed. Use only according to recommendations. Wear personal protective equipment. Use only clean equipment. Provide adequate ventilation. Avoid inhalation of vapour or mist. When opening containers, avoid breathing vapours that may be emanating. Prepare the working solution as given on the label and/or the user instructions. Use prepared working solution as soon as possible—do not store. To avoid spills during handling, keep bottle on a metal tray. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Never return unused material to storage receptacle.

The product should not be dumped, spilled, rinsed, or washed into sewer or public waterways.

Warehouse storage

Store in a dry, cool, and well-ventilated place in accordance with relevant specific regulations.

User storage

Avoid product storage at temperatures below 0°C. Store product in original container only in a location made inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food, or feed in storage.

Store in accordance with relevant specific regulations. Keep locked up or in an area accessible to qualified or authorised personnel only. Store in original container. Keep containers tightly closed and store in a dry, cool, and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children. Keep away from food, drink, and animal feed. Keep away from strong acids and strong bases.

Transport

ADR

Class	6.1
Packaging Group	II
UN-No.	2992
Labeling No.	6.1
Proper Shipping Name	CARBAMATE PESTICIDE, LIQUID, TOXIC (Oxamyl)

IATA_C

Class	6.1
Packaging Group	II
UN-No.	2992
Labeling No.	6.1
Proper Shipping Name	Carbamate pesticide, liquid, toxic, (Oxamyl)

IMDG

Class	6.1
Packaging Group	II
UN-No.	2992
Labeling No.	6.1
Proper Shipping Name	CARBAMATE PESTICIDE, LIQUID, TOXIC (Oxamyl)
Environmental hazards	Marine pollutant

DuPont internal recommendations and transport guidance: Forbidden for transport by aircraft.

Fire fighting measures

Extinguishing media

Suitable extinguishing media: Water spray, Dry chemical, Foam, Carbon dioxide (CO₂)

Extinguishing media that shall not be used for safety reasons: High volume water jet (contamination risk)

Special hazards

Hazardous decomposition products formed under fire conditions: Carbon dioxide (CO₂), Nitrogen oxides (NO_x).

Advice for fire fighters

Fire-fighters should wear full protective clothing and self-contained breathing apparatus.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

If the area is heavily exposed to fire and if conditions permit, let the fire burn itself out, since water may increase the area contaminated. Cool containers/tanks with water spray.

Protective clothing and equipment proposed-nature

The use of a closed transfer system (direct inject in irrigation system) reduces operator exposure.

It is required to wear approved personal protective equipment (gloves, coverall, mask, and goggles) if handling of container. See below for the personal protective clothing to be used.

Respiratory protection:	Manufacturing and processing work: Half mask with vapour filter A3 (EN 141) Mixers and loaders: Half mask with a vapour filter A3 (EN 141). Drip irrigation: No personal respiratory protection normally required.
Hand protection:	Material: Nitrile rubber Glove thickness: 0.4-0.7 mm Glove length: Gauntlets of 35 cm long or longer Protection index: Class 6 Wearing time: 8 h The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Gauntlets shorter than 35 cm long shall be worn under combination sleeve. Gauntlets longer than 35 cm long shall be worn over combination sleeve. Before removing gloves clean them with soap and water.
Eye protection:	Safety glasses with side-shields conforming to EN166
Skin and body protection:	Manufacturing and processing work: Full protective clothing Type 5 (EN 13982-2) Mixers and loaders: Full protective clothing Type 5 + 6 (EN ISO 13982-2/EN 13034), rubber apron, nitrile rubber boots (EN 13832-3/EN ISO 20345). To optimize the ergonomics, it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier. Garment materials that are resistant to both water vapour and air will maximise wearing comfort. Materials should be robust to maintain the integrity and barrier in use. Drip irrigations: No personal body protection normally required.
Protective measures:	All Personal Protection Equipment should be checked before use to confirm it is compatible with the chemicals you are handling. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. Only protected handlers may be in the area during application.

Protective clothing and equipment proposed-characteristics

No information is provided on the suitability of such clothing, as its use is recommended on the basis of general advice for all plant protection products.

Sufficient data to evaluate suitability and effectiveness of protective clothing and equipment under realistic conditions of use

No information is provided on the suitability of such clothing, as its use is recommended on the basis of general advice for all plant protection products.

Procedures to minimise the generation of waste

Purchase and store only those quantities of product required in the short term. Do not open larger containers than is necessary for immediate requirements. Do not mix a volume of spray solution greater than is required for immediate use.

Information on combustion products likely to be generated in the event of fire

Oxamyl 10SL is non-flammable.

Hazardous decomposition products formed under fire conditions are carbon dioxide (CO₂) and nitrogen oxides (NO_x).

B.4.3 Emergency measures in case of an accident

Containment of spillages

Prevent entry into drains, waters, or soil.

Clean-up methods—small spillage: Soak up with inert absorbent material (*e.g.*, sand, earth, diatomaceous earth, vermiculite). Sweep up or vacuum up spillage, and collect in suitable container for disposal.

Clean-up methods—large spillage: Prevent further leakage or spillage. Contain spillage, soak up with non-combustible absorbent material (*e.g.*, sand, earth, diatomaceous earth, vermiculite), and transfer to a container for disposal according to local/national regulations. Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal.

Never return spills in original containers for re-use.

Decontamination of areas, vehicles and buildings

See containment of spillages.

Disposal of damaged packaging, absorbents and other materials

Dispose in accordance with local and national regulations. Dispose of all waste and contaminated clothing in the same manner as waste chemicals (*i.e.*, *via* an authorised disposal facility holding a permit delivered by the competent authorities [European Waste Catalogue number: 020108 Agrochemical waste containing dangerous substances]).

Close and label the waste receptacles and, likewise, any uncleaned containers. Dispose of them at a suitable waste incineration plant and/or in accordance with the official local regulations. Where large quantities are concerned, consult the supplier.

Do not re-use empty containers. Do not contaminate ponds, waterways, or ditches with chemical or used container.

Protection of emergency workers and bystanders

Use protective clothing as proposed on the label. Keep bystanders away from the affected area.

First aid measures

First Aid:

General advice:

- Call a physician or poison control centre immediately. If breathing is irregular or stopped, administer artificial respiration. Never give anything by mouth to an unconscious person.
- Contains an N-methyl carbamate that inhibits cholinesterase. This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.

Inhalation:

- Call a poison control centre or doctor for treatment advice. Move to fresh air. Oxygen or artificial respiration if needed.

Skin contact:

- Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions, see a physician. If, after contact with the skin, signs of poisoning appear, call a physician or poison control centre immediately. Wash contaminated clothing before re-use.

Eye contact:

- If easy to do, remove contact lens, if worn. Hold eye open, and rinse slowly and gently with water for 15 to 20 minutes. If eye irritation persists, consult a specialist.

Ingestion:

- Call a physician or poison control centre immediately. If swallowed, drink 1 or 2 glasses of water, and try once or twice to induce vomiting by touching the back of throat with finger. Induce vomiting, but only if victim is fully conscious. Rinse mouth with water.

B.4.4 Packaging, compatibility of the plant protection product with proposed packaging materials

Description and specification of the packaging and materials used in packaging, size, capacity, size of openings, types of closures and seals

Oxamyl 10SL will be packed in 5, and 10 L bottles.

5 L pack size:

4 bottles are grouped into a corrugated box.

Material: High density polyethylene (HDPE)

Shape/size: Rectangular based bottle

Approximate size: 183 (L) × 151 (W) × 283 (H) mm

Opening: 63 mm diameter

Closure: Screw cap with sealing disk

10 L pack size:

Material: High density polyethylene (HDPE)

Shape/size: Rectangular based bottle

Approximate size: 244 (L) × 195 (W) × 330 (H) mm

Opening: DIN 60 diameter

Closure: Screw cap

Suitability of the packaging and closures

The packaging has been tested and approved according to the RTMD/ADR/RID/OACI/IATA/OMI/IMDG.

UN registration for the 4 × 5 L pack:

4G/X 24/ S/ **

F/BVT 118426/DUPONT DE NEMOURS

UN registration for the 10 L pack:

3H1/Y 1.7/120/ **

F/BVT 267132/BOXMORE

Resistance of the packaging material to its contents

The packaging is a standard DuPont packaging used for similar formulations of other compounds such as sulfonylureas for more than 10 years. Oxamyl 10SL formulation is an analogue to the formulations presently packed in the jar. This long period of use has proved its suitability and resistance, which has been confirmed by additional compatibility and permeability tests.

B.4.5 Procedures for destruction or decontamination of the plant protection product and its packaging

B.4.5.1 Neutralisation procedure

Details of proposed procedure for small quantities

Neutralize with solid sodium hydroxide.

Evaluation of products of neutralization (small quantities)

Allow to stand for 4 hours.

Procedure for disposal of neutralized waste (small quantities)

Sweep up or vacuum up spillage, and collect in suitable container for disposal.

Details of proposed procedure for large quantities

Neutralize with solid sodium hydroxide.

Evaluation of products of neutralization (large quantities)

Allow to stand for 4 hours.

Procedure for disposal of neutralized waste (large quantities)

Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal.

B.4.5.2 Controlled incineration

Pyrolytic behaviour of the active substance under controlled conditions at 800°C and the content of polyhalogenated dibenzo-p-dioxins in the products of hydrolysis

The requirement does not apply to Oxamyl 10SL, which does not contain halogens.

Detailed instructions for safe disposal of the plant protection product and its packaging

Close and label the waste receptacles and, likewise, any uncleaned containers. Dispose of them at a suitable waste incineration plant and/or in accordance with the official local regulations. Where large quantities are concerned, consult the supplier. Do not allow material to contaminate ground water system. Do not contaminate surface water. Contaminated packaging: Do not re-use empty containers. Do not contaminate ponds, waterways, or ditches with chemical or used containers.

Methods other than controlled incineration for disposal

No other methods are currently available.


B.4.6 References relied on



List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the approval of the active substance.

Studies marked in yellow are submitted for the first time.

Data Requirement No., Reference No.	Author(s)	Year	Title Source Company Report No. GLP or GEP Status (where relevant) Published or not	Vertebrate study Y/N	Data Protection Y/N	Owner
B.4.2/01	Peleshanko, S.	2015	Oxamyl 10L soluble concentrate formulation (DPX-D1410): Laboratory study of spray tank cleanout Stine-Haskell Research Center (USA) DuPont-44045 GLP: No Published: No	N	N	DuPont

APPENDIX I
SAFETY DATA SHEET OF OXAMYL 10SL

SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 and 453/2010		
OXAMYL 10SL		
Version 7.0 (replaces: Version 6.0) Revision Date 16.06.2015		Ref. 130000000183
This Safety Data Sheet adheres to the standards and regulatory requirements of the European Community and may not meet the regulatory requirements of other countries.		
SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	: OXAMYL 10SL	
Synonyms	: B11553638 DPX-D1410-397	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Use of the Substance/Mixture	: Insecticide, Nematicide	
1.3. Details of the supplier of the safety data sheet		
Company	: DuPont International Operations S.a.r.l. 2, chemin du Pavillon CH-1218 Le Grand-Saconnex / GE Switzerland	
Telephone	: +41 (0) 22 717 51 11	
Telefax	: +41 (0) 22 717 51 09	
E-mail address	: sds-support@che.dupont.com	
1.4. Emergency telephone number		
Emergency telephone number	: +(44)-870-8200418 : Poison Centres may only possess information required for products in accordance with Regulation (EC) No 1272/2008 and national legislation.	
Supplier	: Du Pont de Nemours (France) S.A.S. 82, rue de Wittelsheim F-68701 Cernay Cedex	
Telephone	: +33 (0) 3 89 38 38 38	
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture		
Acute toxicity, Category 2	H300: Fatal if swallowed.	
Acute toxicity, Category 3	H331: Toxic if inhaled.	
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.	
2.2. Label elements		
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SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 and 453/2010			
OXAMYL 10SL			
Version 7.0 (replaces: Version 6.0) Revision Date 16.06.2015		Ref. 130000000183	
<div style="text-align: center;">  </div>			
<p>Danger</p>			
H300 H331 H412	Fatal if swallowed. Toxic if inhaled. Harmful to aquatic life with long lasting effects.		
Special labelling of certain substances and mixtures	EUH401: To avoid risks to human health and the environment, comply with the instructions for use.,		
P261 P264 P301 + P310 P304 + P340 + P310	Avoid breathing mist or vapours. Wash hands and face thoroughly after handling. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. 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. Specific treatment (see supplemental first aid instructions on this label).		
P321 P330 P403 + P233 P501	Rinse mouth. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents to an approved incineration plant in accordance with local, regional and national legislations.		
P501	Dispose of container to a waste disposal plant in accordance with local, regional and national legislations.		
SP 1	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).		
SPo 2	Wash all protective clothing after use.		
<p>2.3. Other hazards</p> <p>This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB). Restricted to professional users.</p>			
<p>SECTION 3: Composition/information on ingredients</p>			
<p>3.1. Substances</p> <p>Not applicable</p>			
<p>3.2. Mixtures</p>			
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SAFETY DATA SHEET according to Regulation (EC) No 1907/2006
and 453/2010



OXAMYL 10SL

Version 7.0 (replaces: Version 6.0)
Revision Date 16.06.2015

Ref. 130000000183

Registration number	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
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Oxamyl (CAS-No.23135-22-0)
(M-Factor : 1[Acute])

	Acute Tox. 2; H300 Acute Tox. 2; H330 Acute Tox. 4; H312 Aquatic Chronic 2; H411	10 %
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The above products are compliant to REACH registration obligations; Registration number(s) may not be provided because substance(s) are exempted, not yet registered under REACH or are registered under another regulatory process (biocide uses, plant protection products), etc.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures


4.1. Description of first aid measures

General advice	: Call a physician or poison control centre immediately. If breathing is irregular or stopped, administer artificial respiration. Never give anything by mouth to an unconscious person.
	: Contains an N-methyl carbamate that inhibits cholinesterase. This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.
Inhalation	: Call a poison control center or doctor for treatment advice. Move to fresh air. Oxygen or artificial respiration if needed.
Skin contact	: Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician. If after contact with the skin signs of poisoning appear, call a physician or poison control centre immediately. Wash contaminated clothing before re-use.
Eye contact	: If easy to do, remove contact lens, if worn. Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist.
Ingestion	: Call a physician or poison control centre immediately. If swallowed, drink 1 or 2 glasses of water and try once or twice to induce vomiting by touching the back of throat with finger. Induce vomiting, but only if victim is fully conscious. Rinse mouth with water.

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

Risks	: This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds. Allow no further exposure to
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SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 and 453/2010		
OXAMYL 10SL		
Version 7.0 (replaces: Version 6.0) Revision Date 16.06.2015		Ref. 130000000183
Symptoms	: any cholinesterase inhibitor until full recovery is assured. : Poisoning produces effects associated with anticholinesterase activity which may include: Blurred vision, Breathing difficulties, Daze, Headache, Weakness, muscle twitching, sweating, constriction of pupils, Abdominal pain, Nausea, Vomiting	
4.3. Indication of any immediate medical attention and special treatment needed		
Treatment	: Administer atropine sulphate as an antidote until complete atropinisation (1.2-2.0 mg i.v. every 10-30 minutes). 2-PAM may be used as an antidote in conjunction with atropine sulphate but must not be used alone. : Contraindication: Oximes (pralidoxime), succinylcholine and other cholinergic agents, respiratory stimulants and physostigmine. Morphine therapy is contra-indicated.	
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray, Dry chemical, Foam, Carbon dioxide (CO2)	
Extinguishing media which shall not be used for safety reasons	: High volume water jet, (contamination risk)	
5.2. Special hazards arising from the substance or mixture		
Specific hazards during firefighting	: Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO2) Nitrogen oxides (NOx)	
5.3. Advice for firefighters		
Special protective equipment for firefighters	: Wear full protective clothing and self-contained breathing apparatus.	
Further information	: Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. : (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.	
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
Personal precautions	: Evacuate personnel to safe areas. Control access to area. Keep people away from and upwind of spill/leak. Ventilate spill area. Take precautionary measures	
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SAFETY DATA SHEET according to Regulation (EC) No 1907/2006
and 453/2010



OXAMYL 10SL

Version 7.0 (replaces: Version 6.0)
Revision Date 16.06.2015

Ref. 130000000183

against static discharges. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Environmental precautions : Use appropriate container to avoid environmental contamination. Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Clean-up methods - small spillage Soak up with inert absorbent material. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean-up methods - large spillage Prevent further leakage or spillage. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal.

Other information : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

6.4. Reference to other sections

For personal protection see section 8., For disposal instructions see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Use only according to our recommendations. Wear personal protective equipment. For personal protection see section 8. Use only clean equipment. Provide adequate ventilation. Avoid inhalation of vapour or mist. When opening containers, avoid breathing vapours that may be emanating. Prepare the working solution as given on the label(s) and/or the user instructions. Use prepared working solution as soon as possible - Do not store. To avoid spills during handling keep bottle on a metal tray. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Never return unused material to storage receptacle.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Take measures to prevent the build up of electrostatic charge.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep locked up. Store in a place accessible by authorized persons only. Store

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areas and containers : in original container. Keep in properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

Advice on common storage : Keep away from: Strong acids and strong bases

Storage temperature : > 0 °C

Other data : Do not freeze.

7.3. Specific end use(s)

Plant protection products subject to Regulation (EC) No 1107/2009.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

If sub-section is empty then no values are applicable.

8.2. Exposure controls

Engineering measures : Ensure adequate ventilation, especially in confined areas. Use sufficient ventilation to keep employee exposure below recommended limits.

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection : Material: Nitrile rubber
Glove thickness: 0,4 - 0,7 mm
Glove length: Gauntlets of 35 cm long or longer.
Protection index: Class 6
Wearing time: 8 h
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Gauntlets shorter than 35 cm long shall be worn under the combination sleeve. Gauntlets of 35 cm long or longer shall be worn over the combination sleeve. Before removing gloves clean them with soap and water.

Skin and body protection : Manufacturing and processing work: Full protective clothing Type 5 (EN 13982-2)

Mixer and loaders must wear: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Rubber apron Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required.

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Tractor / sprayer without hood: Low application: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Middle-height application: Full protective clothing Type 3 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

High application: Full protective clothing Type 3 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Backpack / knapsack sprayer: Low application: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Middle-height application: Full protective clothing Type 3 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

High application: Full protective clothing Type 3 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Mechanical automatized spray application in closed tunnel: No personal body protection normally required.

When exceptional circumstances require an access to the treated area before the end of re-entry periods, wear full protective clothing Type 6 (EN 13034), nitrile rubber gloves class 3 (EN 374) and nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Drip irrigation: No personal body protection normally required.

To optimize the ergonomics it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier.

Garment materials that are resistant to both water vapour and air will maximise wearing comfort. Materials should be robust to maintain the integrity and barrier in use.

The permeation resistance of the fabric must be verified independently of the « type » protection recommended, to ensure an appropriate performance level of the material adequate to the corresponding agent and type of exposure.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. Only protected handlers may be in the area during application.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink

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and animal feedingstuffs. Remove clothing/PPE immediately if material gets inside. For environmental protection remove and wash all contaminated protective equipment before re-use. Dispose of rinse water in accordance with local and national regulations.

Take a shower immediately after the end of work. Separate rooms are required for washing, showering and changing clothes.

Respiratory protection : Manufacturing and processing work: Half mask with vapour filter A3 (EN 141)

Mixer and loaders must wear: Half mask with vapour filter A3 (EN 141)

Spray application - outdoor: Tractor / sprayer with hood: No personal respiratory protective equipment normally required.

Tractor / sprayer without hood: Half mask with combination filter A2/P3 (EN 141)

Backpack / knapsack sprayer: Half mask with combination filter A2/P3 (EN 141)

Mechanical automatized spray application in closed tunnel: No personal respiratory protective equipment normally required.

Drip irrigation: No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form : liquid

Colour : dark green

Odour : slight, sulphurous

Odour Threshold : not determined

pH : 3,5 at 10 g/l (20 °C)

Melting point/range : Not applicable

Boiling point/boiling range : Not available for this mixture.

Flash point : > 100 °C

Flammability (solid, gas) : Does not sustain combustion.

Thermal decomposition : Not available for this mixture.

Auto-ignition temperature : Test Type :Auto-ignition temperature, not auto-flammable

Oxidizing properties : The product is not oxidizing.

Explosive properties : Not explosive

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Lower explosion limit/ lower flammability limit : Not available for this mixture.

Upper explosion limit/ upper flammability limit : Not available for this mixture.

Vapour pressure : Not available for this mixture.

Density : 1,023 g/cm³ at 25 °C

Water solubility : soluble

Partition coefficient: n-octanol/water : Not applicable

Viscosity, dynamic : 2 mPa.s at 25 °C, 30 rpm

Relative vapour density : Not available for this mixture.

Evaporation rate : Not available for this mixture.

9.2. Other information

Phys.-chem./other information : No other data to be specially mentioned.

SECTION 10: Stability and reactivity

10.1. Reactivity : No hazards to be specially mentioned.

10.2. Chemical stability : The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use. Polymerization will not occur. No decomposition if stored and applied as directed.

10.4. Conditions to avoid : Temperature : < 0 °C Protect from frost.

10.5. Incompatible materials : Incompatible with strong acids and bases.

10.6. Hazardous decomposition products : Sulphur oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

LD50 / Rat Male and female : 39 mg/kg
Method: OECD Test Guideline 401

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(Data on the product itself) Information source: Internal study report

Acute inhalation toxicity

LC50 / 4 h Rat : 0,62 mg/l

Method: OECD Test Guideline 403

The toxicological data has been taken from products of similar composition. Information source: Internal study report

Acute dermal toxicity

LD50 / Rabbit : > 5 000 mg/kg

Method: OECD Test Guideline 402

(Data on the product itself) Information source: Internal study report

Skin irritation

Rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

(Data on the product itself) Information source: Internal study report

Eye irritation

Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

(Data on the product itself) Information source: Internal study report

Sensitisation

Guinea pig Modified Buehler Test

Result: Animal test did not cause sensitization by skin contact.

Method: OECD Test Guideline 406

(Data on the product itself)

Repeated dose toxicity

- Oxamyl
Oral - feed multiple species
Exposure time: 15 d
LOAEL: 0,75 mg/kg
Reduced body weight gain, cholinesterase inhibition

Mutagenicity assessment

- Oxamyl
Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity assessment

- Oxamyl

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Did not show carcinogenic effects in animal experiments. Not classifiable as a human carcinogen.

Toxicity to reproduction assessment

- Oxamyl
No toxicity to reproduction. Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.

Assessment teratogenicity

- Oxamyl
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

STOT - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

The mixture does not have properties associated with aspiration hazard potential.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish

LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): 27 mg/l
Method: OECD Test Guideline 203
(Data on the product itself) Information source: Internal study report

Toxicity to aquatic plants

ErC50 / 72 h / *Pseudokirchneriella subcapitata* (microalgae): 34 mg/l
Method: OECD Test Guideline 201
(Data on the product itself) Information source: Internal study report

Toxicity to aquatic invertebrates

EC50 / 48 h / *Daphnia magna* (Water flea): 3,0 mg/l
Method: OECD Test Guideline 202
(Data on the product itself) Information source: Internal study report

Toxicity to soil dwelling organisms

LC50 / 14 d / *Eisenia fetida* (earthworms): > 1 000 mg/kg
Method: OECD Test Guideline 207
(Data on the product itself) Information source: Internal study report

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Toxicity to other organisms

LD50 / *Colinus virginianus* (Bobwhite quail): 11 mg/kg
Method: US EPA Test Guideline OPPTS 850.2100
(Data on the product itself) Information source: Internal study report

LD50 / 48 h / *Apis mellifera* (bees): 2.60 µg/b
Method: OEPP/EPPO Test Guideline 170
Oral (Data on the product itself) Information source: Internal study report

LD50 / 48 h / *Apis mellifera* (bees): 2.30 µg/b
Method: OEPP/EPPO Test Guideline 170
Contact (Data on the product itself) Information source: Internal study report

Chronic toxicity to fish

- Oxamyl
Early Life-Stage / NOEC / 61 d / *Oncorhynchus mykiss* (rainbow trout): 0,77 mg/l

Chronic toxicity to aquatic Invertebrates

- Oxamyl
flow-through test / NOEC / 21 d / *Daphnia magna* (Water flea): 0,0268 mg/l

12.2. Persistence and degradability

Biodegradability

Not readily biodegradable. Estimation based on data obtained on active ingredient.

12.3. Bioaccumulative potential

Bioaccumulation

Does not bioaccumulate. Estimation based on data obtained on active ingredient.

12.4. Mobility in soil

Mobility in soil

Potentially mobile, but the leaching potential is mitigated by rapid degradation in viable agricultural soils.

12.5. Results of PBT and vPvB assessment


PBT and vPvB assessment


This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). / This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).


12.6. Other adverse effects

Additional ecological information

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<p>No other ecological effects to be specially mentioned</p> <p>See product label for additional application instructions relating to environmental precautions.</p>			
SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Product	:	In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate ponds, waterways or ditches with chemical or used container.	
Contaminated packaging	:	Do not re-use empty containers.	
European Waste Catalogue number	:	020108: agrochemical waste containing dangerous substances	
SECTION 14: Transport information			
ADR			
14.1. UN number:		2992	
14.2. UN proper shipping name:		CARBAMATE PESTICIDE, LIQUID, TOXIC (Oxamyl)	
14.3. Transport hazard class(es):		6.1	
14.4. Packing group:		II	
14.5. Environmental hazards:		Environmentally hazardous	
14.6. Special precautions for user:		(D/E)	
IATA_C			
14.1. UN number:		2992	
14.2. UN proper shipping name:		Carbamate pesticide, liquid, toxic (Oxamyl)	
14.3. Transport hazard class(es):		6.1	
14.4. Packing group:		II	
14.5. Environmental hazards :		For further information see Section 12.	
14.6. Special precautions for user:		DuPont internal recommendations and transport guidance: Forbidden for transport by aircraft	
IMDG			
14.1. UN number:		2992	
14.2. UN proper shipping name:		CARBAMATE PESTICIDE, LIQUID, TOXIC (Oxamyl)	
14.3. Transport hazard class(es):		6.1	
14.4. Packing group:		II	
14.5. Environmental hazards :		Marine pollutant	
14.6. Special precautions for user:		no data available	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable			
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture			
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Other regulations	: The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008. Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Take note of Directive 96/82/EC on the control of major-accident hazards involving dangerous substances. Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.	
15.2. Chemical Safety Assessment		
A Chemical Safety Assessment is not required for this/these products The substance is evaluated within the frame of the provisions of Regulation (EC) No. 1107/2009. Refer to the label for exposure assessment information.		
SECTION 16: Other information		
Full text of H-Statements referred to under section 3.		
H300	Fatal if swallowed.	
H312	Harmful in contact with skin.	
H330	Fatal if inhaled.	
H411	Toxic to aquatic life with long lasting effects.	
Other information	professional use	
Abbreviations and acronyms		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute toxicity estimate	
CAS-No.	Chemical Abstracts Service number	
CLP	Classification, Labelling and Packaging	
EbC50	Concentration at which 50% reduction of biomass is observed	
EC50	Median effective concentration	
EN	European Norm	
EPA	Environmental Protection Agency	
ErC50	Concentration at which a 50% inhibition of growth rate is observed	
EyC50	Concentration at which 50 % inhibition of yield is observed	
IATA_C	International Air Transport Association (Cargo)	
IBC	International Bulk Chemical Code	
ICAO	International Civil Aviation Organization	
ISO	International Standard Organization	
IMDG	International Maritime Dangerous Goods	
LC50	Median Lethal Concentration	
LD50	Median Lethal Dose	
LOEC	Lowest Observed Effect Concentration	
LOEL	Lowest observed effect level	
MARPOL	International Convention for the Prevention of Marine Pollution from Ships	
n.o.s.	Not Otherwise Specified	
NOAEC	No Observed Adverse Effect Concentration	
NOAEL	No observed adverse effect level	
NOEC	No Observed Effect Concentration	
NOEL	No Observed Effect Level	
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OECD OPPTS PBT STEL TWA vPvB	Organisation for Economic Co-operation and Development Office of Prevention, Pesticides and Toxic Substances Persistent, Bioaccumulative and Toxic Short term exposure limit Time Weighted Average (TWA): very Persistent and very Bioaccumulative	
Restrictions on use It is forbidden to appoint minors for work exposing them to this product.		
Further information Before use read DuPont's safety information., Take notice of the directions of use on the label. ® Registered trademark of E.I. du Pont de Nemours and Company Significant change from previous version is denoted with a double bar.		
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.		
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