

European Commission

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



Oxamyl 10GR

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

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

January 2018

VERSION HISTORY

Date	Data points containing amendments or additions	Document identifier or version number

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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 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 10GR

Crops	Proposed pre-harvest intervals
Potato	90 days
Tobacco	n.a.

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

There are no specific re-entry or withholding periods as there is no specific risk for livestock. Potatoes and tobacco are not considered grazing areas.

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

Oxamyl 10GR 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. 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-40951 EU). Therefore, the establishment of a re-entry period for potatoes or tobacco to protect workers is not necessary.

In general, there is no re-entry period required for potato and tobacco.

Withholding period (in days) for animal feeding stuffs

There are no specific withholding periods as there is no specific risk for livestock.

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

There are no specific waiting periods, as potato tubers and tobacco leaves will be mechanically harvested more than 90 days after the application. Therefore, there is no re-entry period required for potato and tobacco.

Generally no manual operations are requested to soil. Good agricultural practices and good hygiene practices should be observed when re-entering the treated field immediately after application.

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

80 days following field-grown crops (as illustrated in DuPont-16669 following application of Oxamyl 10GR at 5.3 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

In the event of a crop failure for any reason, there are no restrictions on allowed crops. For non-approved crops, a PBI (Plant back interval) of 80 days is required.

B.4.2 Recommended methods and precautions

Procedures for cleaning application equipment and protective clothing

Use recommendations from product label.

Oxamyl 10GR is a granule formulation with low content of dust and is to be used without water dilution.

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 have to be avoided.

Returnable containers provided to farmers are equipped with special valves for closing them. Farmers are not requested to rinse or clean the inside. If tamper seal is unbroken, refilling at the manufacturing site is performed without any additional cleaning.

Bag in box packaging is not rinsed or washed. User has to assure that box is totally empty and has to dispose of contaminated boxes according to local law and preventing hazard to environment.

Effectiveness of the cleaning procedures

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

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

B.4.2/01

CP 4.2/01	Report	<p>Peleshanko, S. (2015); Oxamyl 10G granular formulation (DPX-D1410): Laboratory study of cleanout procedure</p> <p>DuPont Report No.: DuPont-44047</p> <p>Guidelines: EU Commission Directive 94/37/EC, Annex III, Section 4.2: Procedures for Cleaning Application Equipment (July 1994) Deviations: None</p> <p>Testing Facility: Stine-Haskell Research Center, Newark, Delaware, USA</p> <p>Testing Facility Report No.: DuPont-44047</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 10G (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 10GR
Lot/Batch #:	D1410-563
Purity:	10.3%
Description:	Granule
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.

100 g of oxamyl was 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 solid 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 0.14 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 10GR 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 appropriate exhaust ventilation at places where dust is formed. Do not breathe dust or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid exceeding the given occupational exposure limits.

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

When off-loading, ensure the vehicle is in a bunded area, and store in a bunded area.

Warehouse storage

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

User storage

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.

No special restrictions on storage with other products.

Transport

ADR	
Class	6.1
Packaging Group	II
UN-No.	2757
Labeling No.	6.1
Proper Shipping Name	CARBAMATE PESTICIDE, SOLID, TOXIC (Oxamyl)

IATA_C	
Class	6.1
Packaging Group	II
UN-No.	2757
Labeling No.	6.1
Proper Shipping Name	Carbamate pesticide, solid, toxic (Oxamyl)

IMDG	
Class	6.1
Packaging Group	II
UN-No.	2757
Labeling No.	6.1
Proper Shipping Name	CARBAMATE PESTICIDE, SOLID, TOXIC (Oxamyl)
Environmental hazards:	Marine pollutant

Firefighting measures

Extinguishing media

Suitable extinguishing media: Water spray, Foam, Dry chemical, 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 self-contained breathing apparatus and use personal protective equipment.

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

Wear impermeable gloves and suitable protective clothing and eye protection.

Protective clothing and equipment proposed-characteristics

Eye protection

Safety glasses with side-shields conforming to EN 166

Hand protection

- Material: Nitrile rubber
- Glove thickness: 0.3 mm
- Glove length: Standard glove type
- 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, abrasions, 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. Before removing gloves, clean them with soap and water.

Respiratory protection

Manufacturing and processing work: Half mask with a particle filter FFP3 (EN149)

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

Soil incorporation – outdoor: Tractor with cabin: No personal respiratory protection normally required. Tractor without hood: Half mask with a particle filter P3 (EN 143)

Mechanical automatized application in green houses: No personal respiratory protection normally required.

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 (EN 13982-2), rubber apron, rubber or plastic boots

Soil incorporation—Outdoor/greenhouses: Tractor with hood: No personal body protection normally required; Tractor without hood: Full protective clothing Type 5 (EN 13982-2)

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

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 damage or if contaminated. Only protected handlers may be in the area during application.

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 10GR does not sustain combustion.

Hazardous decomposition products formed under fire conditions: Carbon dioxide (CO₂), 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: Sweep up or vacuum up spillage, and collect in suitable container for disposal.

Clean-up methods—large spillage: Avoid dust formation. Knock down dust with water spray jet. Prevent further leakage or spillage. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing, and transfer to a container for disposal according to local/national regulations.

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).

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 (Point CP 4.2 in this document). Keep bystanders away from the affected area.

First aid measures

First Aid:

In case poisoning occurs, immediately contact a doctor or anti-poisoning centre, providing the information contained in the product Safety Data Sheet.

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:

- Move to fresh air. Consult a physician after significant exposure. Artificial respiration and/or oxygen may be necessary.

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.

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. Get medical advice/ attention.

Ingestion:

- Call a physician or poison control centre immediately. If victim is conscious: 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. 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 10GR is packed in 5 or 10 kg bags in boxes (polyethylene-lined aluminum bag containing 5 or 10 kg of product inserted into a corrugated box). Packaging is not refillable or returnable.

Oxamyl 10GR can also be packed in a 15 or 20 kg closed transfer system container. The container and its valve are made of polypropylene copolymer. These containers are returnable for re-filling and re-use.

Box

Materials: Double wall corrugated fiberboard

Shape/size: Rectangular boxes

10 kg: 0.227 × 0.237 × 0.343 mm (external)

5 kg: 238 × 238 × 220 mm (external)

Opening: Corner of the bag must be cut. Opening is around 100 mm diameter.

Closure: Adhesive tapped or/and glued

Bag

Materials: Kraft/LDPE/alu/LDPE

Closure: Welded

Container and valve (closed transfer system)

Materials: Polypropylene copolymer

Shape/size: Rectangular container with handles

Size: 300 × 325 × 405 mm

Capacity: 15 or 20 kg

Opening: Closed transfer system. The product is transferred from the container to the tank without operator dust or granule exposure.

This container must only be filled with Oxamyl 10GR. Refillable only by DuPont at authorised locations/plants. Do not refill or transport damaged or leaking containers.

Suitability of the packaging and closures

The packaging complies with ADR regulations having been tested using the ADR test methods appropriate to the pack type and material and classification of the contents and an appropriate UN certificate issued. Current closed transfer system, returnable for Oxamyl 10GR formulation, with capacity of 15 or 20 kg has the following approved UN number: 3H2/Y 18/S/--F/BVT 33916/CYPHER CO LTD.

Resistance of the packaging material to its contents

The packaging is a standard DuPont packaging used for more than 15 years. This long period of use has proved its suitability and resistance, which has been confirmed by additional compatibility and permeability tests. The packaging meets UN recommendations Packaging Group II.

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

B.4.5.1 Neutralisation procedures

Details of proposed procedure for small quantities

Neutralise with 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

Neutralise with 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 10GR 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 10G granular formulation (DPX-D1410): Laboratory study of cleanout procedure Stine-Haskell Research Center (USA) DuPont-44047 GLP: No Published: No	N	N	DuPont


APPENDIX 1
SAFETY DATA SHEET OF OXAMYL 10GR


SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 and 453/2010			
OXAMYL 10 GR			
Version 8.0 (replaces: Version 7.0) Revision Date 17.06.2015		Ref. 130000000049	
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 10 GR		
Synonyms	: B10049174 DPX-D1410 10 G		
1.2. Relevant identified uses of the substance or mixture and uses advised against			
Use of the Substance/Mixture	: Insecticide		
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			
1/14			


SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 and 453/2010																				
OXAMYL 10 GR																				
Version 8.0 (replaces: Version 7.0) Revision Date 17.06.2015		Ref. 130000000049																		
<div style="text-align: center; margin-bottom: 20px;">  </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Danger</p> <p>H300 H331 H412</p> <p>Special labelling of certain substances and mixtures</p> <p>P261 P264 P301 + P310 P304 + P340</p> <p>P321 P330 P403 + P233 P501</p> <p>P501</p> <p>Special labelling of certain substances and mixtures</p> </div> <div style="width: 65%;"> <p>Fatal if swallowed. Toxic if inhaled. Harmful to aquatic life with long lasting effects.</p> <p>EUH401: To avoid risks to human health and the environment, comply with the instructions for use.,</p> <p>Avoid breathing dust. Wash hands 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. Specific treatment (see supplemental first aid instructions on this label). 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. Dispose of container to a waste disposal plant in accordance with local, regional and national legislations.</p> <p>To avoid risks to man and the environment, comply with the instructions for use.</p> </div> </div> <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>																				
SECTION 3: Composition/information on ingredients																				
3.1. Substances																				
Not applicable																				
3.2. Mixtures																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="padding: 5px;">Registration number</th> <th style="padding: 5px;">Classification according to Regulation (EU) 1272/2008 (CLP)</th> <th style="padding: 5px;">Concentration (% w/w)</th> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> </table>	Registration number	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="padding: 5px;">Registration number</th> <th style="padding: 5px;">Classification according to Regulation (EU) 1272/2008 (CLP)</th> <th style="padding: 5px;">Concentration (% w/w)</th> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> </table>	Registration number	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="padding: 5px;">Registration number</th> <th style="padding: 5px;">Classification according to Regulation (EU) 1272/2008 (CLP)</th> <th style="padding: 5px;">Concentration (% w/w)</th> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> </table>	Registration number	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)			
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2/14																				


SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 and 453/2010						
OXAMYL 10 GR						
Version 8.0 (replaces: Version 7.0) Revision Date 17.06.2015		Ref. 130000000049				
<p>Oxamyl (CAS-No.23135-22-0) (M-Factor : 1[Acute])</p> <table border="1"> <tr> <td></td> <td> Acute Tox. 2; H300 Acute Tox. 2; H330 Acute Tox. 4; H312 Aquatic Chronic 2; H411 </td> <td>10 %</td> </tr> </table>					Acute Tox. 2; H300 Acute Tox. 2; H330 Acute Tox. 4; H312 Aquatic Chronic 2; H411	10 %
	Acute Tox. 2; H300 Acute Tox. 2; H330 Acute Tox. 4; H312 Aquatic Chronic 2; H411	10 %				
<p>Cyclohexanone (CAS-No.108-94-1)</p> <table border="1"> <tr> <td></td> <td> Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 </td> <td>>= 5 - < 10 %</td> </tr> </table>					Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 5 - < 10 %
	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 5 - < 10 %				
<p>Phosphoric acid (CAS-No.7664-38-2)</p> <table border="1"> <tr> <td>01-2119485924-24</td> <td>Skin Corr. 1B; H314</td> <td>>= 1 - < 5 %</td> </tr> </table>				01-2119485924-24	Skin Corr. 1B; H314	>= 1 - < 5 %
01-2119485924-24	Skin Corr. 1B; H314	>= 1 - < 5 %				
<p>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.</p> <p>For the full text of the H-Statements mentioned in this Section, see Section 16.</p>						
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	: Move to fresh air. Consult a physician after significant exposure. Artificial respiration and/or oxygen may be necessary.					
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.					
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. Get medical advice/ attention.					
3/14						


SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 and 453/2010		
OXAMYL 10 GR		
Version 8.0 (replaces: Version 7.0) Revision Date 17.06.2015		Ref. 130000000049
Ingestion	: Call a physician or poison control centre immediately. If victim is conscious: 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. Rinse mouth with water.	
4.2. Most important symptoms and effects, both acute and delayed		
Risks	: Allow no further exposure to any cholinesterase inhibitor until full recovery is assured.	
Symptoms	: Breathing difficulties, Shortness of breath, Dizziness, Nausea, Weakness, Headache, Blurred vision, constriction of pupils, slow pulse, sweating, muscle twitching	
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. Allow no further exposure to any cholinesterase inhibitor until full recovery is assured. : 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, Foam, Dry chemical, 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.	
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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. Avoid dust formation. Keep people away from and upwind of spill/leak. Ventilate spill area. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid breathing dust. Refer to protective measures listed in sections 7 and 8.	
6.2. Environmental precautions		
Environmental precautions	: Prevent further leakage or spillage if safe to do so. Use appropriate container to avoid environmental contamination. 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 Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean-up methods - large spillage Avoid dust formation. Knock down dust with water spray jet. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).	
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 in an area equipped with a safety shower. Use only according to our recommendations. Wear personal protective equipment. Use only clean equipment. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust or spray mist. Use prepared working solution as soon as possible - Do not store. In case of insufficient ventilation, wear suitable respiratory equipment. Prepare the working solution as given on the label(s) and/or the user instructions. Avoid exceeding the given occupational exposure limits (see section 8). For personal protection see section 8.	
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<p>Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Avoid dust formation in confined areas. During processing, dust may form explosive mixture in air.</p> <p>7.2. Conditions for safe storage, including any incompatibilities</p> <p>Requirements for storage areas and containers : Keep locked up or in an area accessible only to qualified or authorised persons. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.</p> <p>Advice on common storage : No special restrictions on storage with other products.</p> <p>Other data : Stable under recommended storage conditions.</p> <p>7.3. Specific end use(s)</p> <p>Plant protection products subject to Regulation (EC) No 1107/2009.</p>			
SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
If sub-section is empty then no values are applicable.			
Derived No Effect Level (DNEL)			
<ul style="list-style-type: none"> Phosphoric acid : Type of Application (Use): Workers Exposure routes: Inhalation Health Effect: Chronic effects, Local effects Value: 2,92 mg/m3 : Type of Application (Use): Consumer use Exposure routes: Inhalation Health Effect: Chronic effects, Local effects Value: 0,73 mg/m3 			
8.2. Exposure controls			
<p>Engineering measures : Ensure adequate ventilation, especially in confined areas. Use only in area provided with appropriate exhaust ventilation. Provide for appropriate exhaust ventilation and dust collection at machinery.</p> <p>Eye protection : Safety glasses with side-shields conforming to EN166</p> <p>Hand protection : Material: Nitrile rubber Glove thickness: 0,3 mm Glove length: Standard glove type. Protection index: Class 6 Wearing time: > 480 min 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,</p>			
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Skin and body protection	<p>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. Before removing gloves clean them with soap and water.</p> <p>: Manufacturing and processing work: Full protective clothing Type 5 (EN 13982-2)</p> <p>Mixer and loaders must wear: Full protective clothing Type 5 (EN 13982-2) Rubber apron Rubber or plastic boots</p> <p>Soil incorporation - outdoor Tractor / sprayer with hood: No personal body protection normally required. Tractor / sprayer without hood: Full protective clothing Type 5 (EN 13982-2)</p> <p>Mechanical automatized spray application in closed tunnel: No personal body protection normally required.</p> <p>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.</p>	
Protective measures	<p>: 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.</p>	
Hygiene measures	<p>: Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes and clothing. Avoid breathing dust or solution spray. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. For environmental protection remove and wash all contaminated protective equipment before re-use. Remove clothing/PPE immediately if material gets inside. Dispose of rinse water in accordance with local and national regulations.</p>	
Respiratory protection	<p>: Manufacturing and processing work: Half mask with a particle filter FFP3 (EN149)</p> <p>Mixer and loaders must wear: Half mask with vapour filter A3 (EN 141)</p>	
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<p>Soil incorporation - outdoor Tractor / sprayer with hood: No personal respiratory protective equipment normally required. Tractor / sprayer without hood: Half mask with a particle filter P3 (EN 143).</p> <p>Mechanical automatized spray application in closed tunnel: No personal respiratory protective equipment normally required.</p>			
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Form	:	granules	
Colour	:	blue green	
Odour	:	slight, solvent-like	
Odour Threshold	:	not determined	
pH	:	6,8 at 100 g/l (24 °C)	
Melting point/range	:	Not available for this mixture.	
Flash point	:	Not applicable	
Flammability (solid, gas)	:	Does not sustain combustion.	
Ignition temperature	:	no data available	
Thermal decomposition	:	Not available for this mixture.	
Auto-ignition temperature	:	Test Type :Auto-ignition temperature, Not available for this mixture.	
Oxidizing properties	:	The product is not oxidizing.	
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.	
Relative density	:	Not available for this mixture.	
Bulk density	:	720 kg/m ³	
Water solubility	:	229 g/l at 25 °C	
Partition coefficient: n-octanol/water	:	Not applicable	
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Viscosity, dynamic	: Not applicable	
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. Burning produces noxious and toxic fumes. No decomposition if stored and applied as directed.	
10.4. Conditions to avoid	: Heating can release hazardous gases. Under severe dusting conditions, this material may form explosive mixtures in air.	
10.5. Incompatible materials	: No materials to be especially mentioned.	
10.6. Hazardous decomposition products	: No materials to be especially mentioned.	
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute oral toxicity		
LD50 / Rat male : 43 mg/kg Method: OECD Test Guideline 401 (Data on the product itself) Information source: Internal study report		
LD50 / Rat female : 34 mg/kg Method: OECD Test Guideline 401 (Data on the product itself) Information source: Internal study report		
Acute inhalation toxicity		
LC50 / 4 h Rat : 0,68 mg/l Method: OECD Test Guideline 403 (Data on the product itself) Information source: Internal study report		
Acute dermal toxicity		
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<p>LD50 / Rabbit : > 5 000 mg/kg Method: OECD Test Guideline 402 (Data on the product itself) Information source: Internal study report</p> <p>Skin irritation</p> <p>Rabbit Result: No skin irritation Method: OECD Test Guideline 404 (Data on the product itself)</p> <p>Eye irritation</p> <p>Rabbit Result: No eye irritation Method: OECD Test Guideline 405 (Data on the product itself)</p> <p>Sensitisation</p> <p>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)</p> <p>Repeated dose toxicity</p> <ul style="list-style-type: none">• Oxamyl Oral - feed multiple species Exposure time: 15 d LOAEL: 0,75 mg/kg Reduced body weight gain, cholinesterase inhibition <p>Mutagenicity assessment</p> <ul style="list-style-type: none">• Oxamyl Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects. <p>Carcinogenicity assessment</p> <ul style="list-style-type: none">• Oxamyl Did not show carcinogenic effects in animal experiments. Not classifiable as a human carcinogen. <p>Toxicity to reproduction assessment</p> <ul style="list-style-type: none">• Oxamyl No toxicity to reproduction Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity. <p>Assessment teratogenicity</p> <ul style="list-style-type: none">• Oxamyl		
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<p>Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.</p> <p>STOT - single exposure</p> <p>The substance or mixture is not classified as specific target organ toxicant, single exposure.</p> <p>STOT - repeated exposure</p> <p>The substance or mixture is not classified as specific target organ toxicant, repeated exposure.</p> <p>Aspiration hazard</p> <p>The mixture does not have properties associated with aspiration hazard potential.</p>			
SECTION 12: Ecological information			
12.1. Toxicity			
Toxicity to fish			
static test / LC50 / 96 h / <i>Lepomis macrochirus</i> (Bluegill sunfish): 47 mg/l Method: OECD Test Guideline 203 (Data on the product itself) Information source: Internal study report			
Toxicity to aquatic plants			
EbC50 / 72 h / <i>Pseudokirchneriella subcapitata</i> (green algae): 8,6 mg/l Method: OECD Test Guideline 201 (Data on the product itself) Information source: Internal study report			
Toxicity to aquatic invertebrates			
EC50 / 48 h / <i>Daphnia magna</i> (Water flea): 3,3 mg/l Method: OECD Test Guideline 202 (Data on the product itself) Information source: Internal study report			
Chronic toxicity to fish			
<ul style="list-style-type: none"> • Oxamyl Early Life-Stage / NOEC / 61 d / <i>Oncorhynchus mykiss</i> (rainbow trout): 0,77 mg/l 			
Chronic toxicity to aquatic Invertebrates			
<ul style="list-style-type: none"> • Oxamyl flow-through test / NOEC / 21 d / <i>Daphnia magna</i> (Water flea): 0,0268 mg/l 			
12.2. Persistence and degradability			
Biodegradability			
Not readily biodegradable. Estimation based on data obtained on active ingredient.			
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<div style="margin-bottom: 10px;"> 12.3. Bioaccumulative potential Bioaccumulation Does not bioaccumulate. Estimation based on data obtained on active ingredient. </div> <div style="margin-bottom: 10px;"> 12.4. Mobility in soil Mobility in soil Potentially mobile, but the leaching potential is mitigated by rapid degradation in viable agricultural soils. </div> <div style="margin-bottom: 10px;"> 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). </div> <div style="margin-bottom: 10px;"> 12.6. Other adverse effects Additional ecological information No other ecological effects to be specially mentioned See product label for additional application instructions relating to environmental precautions. </div>		
SECTION 13: Disposal considerations		
<div style="margin-bottom: 10px;"> 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. </div> <div> Contaminated packaging : Do not re-use empty containers. </div>		
SECTION 14: Transport information		
<div style="margin-bottom: 10px;"> ADR 14.1. UN number: 2757 14.2. UN proper shipping name: CARBAMATE PESTICIDE, SOLID, 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) Tunnel restriction code: </div> <div> IATA_C 14.1. UN number: 2757 14.2. UN proper shipping name: Carbamate pesticide, solid, 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: </div>		
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<p style="text-align: center;">DuPont internal recommendations and transport guidance: ICAO / IATA cargo aircraft only</p> <p>IMDG</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;">14.1. UN number:</td> <td>2757</td> </tr> <tr> <td>14.2. UN proper shipping name:</td> <td>CARBAMATE PESTICIDE, SOLID, TOXIC (Oxamyl)</td> </tr> <tr> <td>14.3. Transport hazard class(es):</td> <td>6.1</td> </tr> <tr> <td>14.4. Packing group:</td> <td>II</td> </tr> <tr> <td>14.5. Environmental hazards :</td> <td>Marine pollutant</td> </tr> <tr> <td>14.6. Special precautions for user:</td> <td>no data available</td> </tr> </table> <p>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable</p>			14.1. UN number:	2757	14.2. UN proper shipping name:	CARBAMATE PESTICIDE, SOLID, 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																								
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SECTION 15: Regulatory information																																						
<p>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <p>no data available</p> <p>15.2. Chemical Safety Assessment</p> <p>A Chemical Safety Assessment is not required for this/these products The mixture is registered as a plant protection product under Regulation (EC) No. 1107/2009. Refer to the label for exposure assessment information.</p>																																						
SECTION 16: Other information																																						
<p>Full text of H-Statements referred to under section 3.</p> <table style="width: 100%; border: none;"> <tr><td>H226</td><td>Flammable liquid and vapour.</td></tr> <tr><td>H300</td><td>Fatal if swallowed.</td></tr> <tr><td>H302</td><td>Harmful if swallowed.</td></tr> <tr><td>H312</td><td>Harmful in contact with skin.</td></tr> <tr><td>H314</td><td>Causes severe skin burns and eye damage.</td></tr> <tr><td>H315</td><td>Causes skin irritation.</td></tr> <tr><td>H318</td><td>Causes serious eye damage.</td></tr> <tr><td>H330</td><td>Fatal if inhaled.</td></tr> <tr><td>H332</td><td>Harmful if inhaled.</td></tr> <tr><td>H411</td><td>Toxic to aquatic life with long lasting effects.</td></tr> </table> <p>Other information professional use</p> <p>Abbreviations and acronyms</p> <table style="width: 100%; border: none;"> <tr><td>ADR</td><td>European Agreement concerning the International Carriage of Dangerous Goods by Road</td></tr> <tr><td>ATE</td><td>Acute toxicity estimate</td></tr> <tr><td>CAS-No.</td><td>Chemical Abstracts Service number</td></tr> <tr><td>CLP</td><td>Classification, Labelling and Packaging</td></tr> <tr><td>EbC50</td><td>Concentration at which 50% reduction of biomass is observed</td></tr> <tr><td>EC50</td><td>Median effective concentration</td></tr> <tr><td>EN</td><td>European Norm</td></tr> <tr><td>EPA</td><td>Environmental Protection Agency</td></tr> </table>			H226	Flammable liquid and vapour.	H300	Fatal if swallowed.	H302	Harmful if swallowed.	H312	Harmful in contact with skin.	H314	Causes severe skin burns and eye damage.	H315	Causes skin irritation.	H318	Causes serious eye damage.	H330	Fatal if inhaled.	H332	Harmful if inhaled.	H411	Toxic to aquatic life with long lasting effects.	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
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ErC50 EyC50 IATA_C IBC ICAO ISO IMDG LC50 LD50 LOEC LOEL MARPOL n.o.s. NOAEC NOAEL NOEC NOEL OECD OPPTS PBT STEL TWA vPvB	Concentration at which a 50% inhibition of growth rate is observed Concentration at which 50 % inhibition of yield is observed International Air Transport Association (Cargo) International Bulk Chemical Code International Civil Aviation Organization International Standard Organization International Maritime Dangerous Goods Median Lethal Concentration Median Lethal Dose Lowest Observed Effect Concentration Lowest observed effect level International Convention for the Prevention of Marine Pollution from Ships Not Otherwise Specified No Observed Adverse Effect Concentration No observed adverse effect level No Observed Effect Concentration No Observed Effect Level 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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