

VYDATE® SL

Version 2.2

Revision Date 15.11.2010 Ref.130000000046

This SDS adheres to the standards and regulatory requirements of the European Union and may not meet the regulatory requirements in other countries.

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

Product information

Product name : VYDATE® SL

Synonyms : B10049186

: DPX-D1410 24L

Use of the

Substance/Mixture

: Insecticide, Nematicide

Company : DuPont de Nemours South Africa (Pty) Ltd

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2. HAZARDS IDENTIFICATION

Flammable.

Very toxic if swallowed.

Toxic by inhalation.

Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the

mixture

: Pesticide

Chemical Name	CAS-No.	EC-No.	Registration number	Classification	Concentration [%]
Oxamyl	23135-22-0	245-445-3		T+; R26/28 Xn; R21 N; R51 -R53	24
Methanol	67-56-1	200-659-6		F; R11 T; R23/24/25 - R39/23/24/25	>= 40 - < 50



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For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice : Never give anything by mouth to an unconscious person.

Contains an N-methyl carbamate that inhibits cholinesterase.

Inhalation : Move to fresh air. Artificial respiration and/or oxygen may be necessary. Call a

physician or poison control centre immediately.

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. Wash contaminated clothing before re-use.

Eye contact : 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. Do not induce vomiting

without medical advice. If victim is conscious: Rinse mouth with water.

Notes to physician

Risks : This product is a cholinesterase inhibitor carbamate. Dangerous amounts can

be absorbed through the skin.

Symptoms : Poisoning produces effects associated with anticholinesterase activity which

may include:, Breathing difficulties, muscle twitching, sweating, Daze,

Headache, Weakness, Blurred vision, constriction of pupils

Treatment : Administer atropine sulphate as antidote. Morphine, 2-PAM and oxime therapy

are contra-indicated.

Allow no further exposure to any cholinesterase inhibitor until full recovery is

assured.

5. FIRE-FIGHTING MEASURES

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),

Specific hazards during fire

fighting

: Hazardous decomposition products formed under fire conditions. Carbon

dioxide (CO2) nitrogen oxides (NOx)

Special protective equipment for fire-fighters

: In the event of fire, wear self-contained breathing apparatus. 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



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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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Evacuate personnel to safe areas. Control access to area. Ventilate the area.

Use personal protective equipment. Refer to protective measures listed in

sections 7 and 8.

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.

Methods for cleaning up : Neutralise with sodium hydroxide and allow to stand for 4 hours.

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.

Additional advice : Never return spills in original containers for re-use. Dispose of in accordance

with local regulations.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Use only in an area equipped with a safety shower.

Use only clean equipment. Avoid inhalation of vapour or mist. Provide adequate ventilation. Wear personal protective equipment. For personal protection see

section 8.

Advice on protection against fire and explosion

: Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers

: Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food,



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drink and animal feedingstuffs.

Advice on common storage : No special restrictions on storage with other products. Keep away from:

Oxidizing agents

Storage temperature : > 0 °C

Other data : Stable under recommended storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Type Form of exposure	Control parameters	Update	Basis	
Methanol	67-56-1	TWA	260 mg/m3 200 ppm	12 2009	EU ELV	
			Indicative			
		SKIN_DES		02 2006	EU ELV	
			Can be absorbed through skin.			
		TWA	260 mg/m3 200 ppm	1995	ZA REL	
					•	
		STEL	310 mg/m3 250 ppm	1995	ZA REL	
					•	
		SKIN_DES		1995	ZA REL	
			Can be absorbed through skin.			

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

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

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

Respiratory protection : Spray application - outdoor: Half mask with combination filter A2/P3 (EN 141)

Respiratory protection : Spray application - indoor: Half mask with combination filter A2/P3 (EN 141)

Hand protection : Material: Nitrile rubber

Glove thickness: 0,4 - 0,7 mm

Glove length : Gauntlets



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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, abrasion, and the contact time., The suitability for a specific workplace should be discussed with the producers of the protective gloves., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough., 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 6 (EN 13034)

Mixer and loaders must wear: Full protective clothing Type 5+6 (EN ISO

13982-2 / EN 13034) Rubber apron Rubber or plastic boots

Spray application - outdoor: Full protective clothing Type 3 (EN 14605) Rubber

or plastic boots

Spray application - indoor: Full protective clothing Type 3 (EN 14605) Rubber or

plastic boots

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. Avoid contact with skin, eyes and clothing. Avoid exposure to vapor. Wash hands and face before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink 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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid,

Colour : green,

Odour : slight, sulphurous,

pH : 3,6 at 10 g/l (25 °C)

Solidification point : -5 ℃



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

Flash point : 23 ℃

Oxidizing properties : The product is not oxidizing.

Explosive properties : Not explosive

Density : 0,966 g/cm3 at 20 ℃

Solubility/qualitative : completely miscible

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

10. STABILITY AND REACTIVITY

Conditions to avoid : Processing temperature : > 130 ℃

Protect from frost.

Materials to avoid : Incompatible with oxidizing agents.

Hazardous decomposition

products

: Heating can release vapours which can be ignited.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50/ ratmale: 10 mg/kgMethod: OECD Test Guideline 401

(Data on the product itself)

Information source: Internal study report

LD50/ ratfemale: 9 mg/kgMethod: OECD Test Guideline 401

(Data on the product itself)

Information source: Internal study report

Acute inhalation toxicity : LC50/ 4 h / rat : 0,3 mg/l

Method: OECD Test Guideline 403

(Data on the product itself)

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 : rabb

Result: No eye irritation Method: OECD Test Guideline 405 (Data on the product



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itself) Information source: Internal study report

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

Method: OECD Test Guideline 406 (Data on the product itself) Information

source: Internal study report

Mutagenicity assessment

Oxamyl : Did not cause genetic damage in animals., Tests on bacterial or mammalian cell

cultures did not show mutagenic effects.

Carcinogenicity assessment

Oxamyl
 Did not show carcinogenic effects in animal experiments.

Toxicity to reproduction assessment

Oxamyl : Animal testing showed effects on reproduction at levels equal to or above those

causing parental toxicity.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : Not readily biodegradable. Estimation based on data obtained on active

ingredient.

Bioaccumulation : This mixture contains no substance considered to be persistent,

bioaccumulating nor toxic (PBT). This mixture contains no substance considered

to be very persistent nor very bioaccumulating (vPvB).

Ecotoxicity effects

Toxicity to fish : LC50/ 96 h/ Oncorhynchus mykiss (rainbow trout) :: 12,4 mg/l

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

Toxicity to algae

Oxamyl : / EbC50/ 72 h/ Pseudokirchneriella subcapitata (green algae): 1,0 mg/l

/ EC50/ 336 h/ Lemna gibba (duckweed): 30,0 mg/l

Toxicity to daphnia : / EC50/ 48 h/ Daphnia: 1,95 mg/l

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

13. DISPOSAL CONSIDERATIONS

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.



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14. TRANSPORT INFORMATION

ADR

Class: 6.1
Packaging group: II
Classification Code: TF2
HI No:: 63
UN number: 2991
Labelling No.: 6.1, 3

Proper shipping name: Carbamate pesticide, liquid, toxic, flammable (Methanol, Oxamyl)

IMDG

Class: 6.1
Packaging group: II
UN number: 2991
Labelling No.: 6.1, 3

Proper shipping name: Carbamate pesticide, liquid, toxic, flammable (Methanol, Oxamyl) Oxamyl)

Marine pollutant: Marine pollutant

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol(s) : T+ Very toxic

Hazardous components: Methanol

Oxamyl

R-phrase(s) : R10 Flammable.

R28 Very toxic if swallowed. R23 Toxic by inhalation.

R39/23/24/25 Toxic: danger of very serious irreversible effects through

inhalation, in contact with skin and if swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

S-phrase(s) : S 1/2 Keep locked up and out of the reach of children.

S13 Keep away from food, drink and animal feedingstuffs.

S20/21 When using do not eat, drink or smoke.

S23 Do not breathe spray, vapour.

S28 After contact with skin, wash immediately with plenty of

water.

S35 This material and its container must be disposed of in a safe

wav.

S36/37/39 Wear suitable protective clothing, gloves and eye/face

protection.

S38 In case of insufficient ventilation, wear suitable respiratory

equipment.

S45 In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

S57 Use appropriate container to avoid environmental



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contamination.

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.

Special labelling of certain

mixtures

: To avoid risks to man and the environment, comply with the instructions for use.

Other regulations : Restricted to professional users.

16. OTHER INFORMATION

Text of R-phrases mentioned in Section 3

R11 Highly flammable.

R21 Harmful in contact with skin.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R26/28 Also very toxic by inhalation and if swallowed.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin

and if swallowed.

R51 Toxic to aquatic organisms.

R53 May cause long-term adverse effects in the aquatic environment.

Further information

Before use read DuPont's safety information., Take notice of the directions of use on the label.

Significant change from previous version is denoted with a double bar.

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