

Safety information

PROSPECT® SX®

**Herbicide containing
500 g/kg
thifensulfuron methyl**



WARNING

Very toxic to aquatic life with long lasting effects.

Collect spillage

Dispose of contents / container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

To avoid risks to human health and the environment, comply with the instructions for use

PCS No 02284



DuPont™

Prospect® SX®

HERBICIDE

GROUP B HERBICIDE



PCS No: 02284

Contents: **45 g e**

A water soluble granule containing 500 g/kg thifensulfuron-methyl, a sulfonylurea, for the control of broad-leaved docks in rotational and established grassland and set-aside land.

Manufactured in E.U.

**Du Pont (U.K.) Limited, Crop Protection Products,
Wedgwood Way, Stevenage, Herts. SG1 4QN. England
Tel: 00 44 1438 734450 or enquiry.agproducts@gbr.dupont.com**

Emergency 24-hour contact: (01) 901 4670

**National Poisons Information Service:
01 809 2166 or 01 837 9964**

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Prospect® SX®

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SAFETY PRECAUTIONS

ENVIRONMENTAL PROTECTION

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).

CONDITIONS RELATING TO USE

**FOR USE ONLY AS AN AGRICULTURAL HERBICIDE FOR THE CONTROL
OF BROAD-LEAVED DOCKS IN ROTATIONAL AND ESTABLISHED
GRASSLAND AND SET-ASIDE LAND.**

Maximum individual dose:

Grassland and set-aside 22.5 g product/ha

Maximum Number of applications:

1 per year

Latest time of application: Grassland 7 days before cutting/ grazing

Method of application: Tractor mounted sprayer

READ ALL SAFETY PRECAUTIONS BEFORE USE

DIRECTIONS FOR USE

Restrictions

Due to the high level of activity of the herbicide, special attention must be paid to the thorough cleansing of equipment and the avoidance of spray drift - See below.

WEED CONTROL

PROSPECT® SX® is a contact-acting herbicide with translocated activity that controls broad-leaved docks (*Rumex obtusifolius*) by rapidly stopping the growth of both root and shoot tips. However, visible signs of weed kill may take several days to appear and are characterised by death at the growing point and bright yellowing or reddening of the leaves.

Weed control may be reduced if rain occurs within four hours of application. Good spray cover must be obtained to achieve the best results. PROSPECT® SX® should be applied to established grassland when broad-leaved docks are actively growing. To ensure long-term control respraying may be required. Docks with seed heads maturing should be topped and the regrowth treated later.

Where docks are a major problem, usually where grass is intensively managed (frequent cutting and high levels of N-fertiliser), re-growth may occur. If significant re-growth should occur, which will depend on the maturity of the existing dock plants (large plants with big tap roots being more difficult to control) and the cutting and fertiliser regime, a further application will be necessary. Re-growth is more likely to occur where the lower dose rate has been applied.

Weed Resistance

When herbicides with the same mode of action are used repeatedly over several years on the same field, selection of resistant biotypes can take place. These can propagate and may become dominating. A weed species is considered resistant to a herbicide if it survives a correctly-applied treatment at the recommended dose. Development of resistance within a weed species can be avoided or delayed by alternating (or tank-mixing) with suitable products having a different mode of action.

Weed Susceptibility

Broad-leaved docks are susceptible up to the formation of the flower head. Best results are achieved when the weed is actively growing. Established docks with large tap roots may require respraying.

Curled-leaf dock (*Rumex crispus*) is not controlled.

CROPS

GRASSLAND

CROP SAFETY

PROSPECT® SX® can be applied to rotational and established grassland. Do not treat new leys in the same calendar year. Damage to the sward, resulting in a loss of dry matter production, may occur under stress conditions. Do not apply PROSPECT® SX® where nutrient imbalances, drought, water-logging, high or low temperatures, lime deficiency, pest or disease attack or any other factor that can reduce sward vigour. The health of the sward should be examined before application. Cutting or grazing within 7-10 days after application can help to minimise any production loss. PROSPECT® SX® may cause a transient check to clover.

TIMING

Apply PROSPECT® SX® 7 to 10 days before cutting or grazing, from March to the end of the growing season, usually early October.

DO NOT CUT OR GRAZE WITHIN SEVEN DAYS OF APPLICATION. UNDER STRESS CONDITIONS (see Crop Safety section), WHEN DAMAGE MAY OCCUR, DELAYING CUTTING OR GRAZING MORE THAN TEN DAYS AFTER APPLICATION MAY RESULT IN A LOSS OF DRY MATTER PRODUCTION.

DOSE

Apply PROSPECT® SX® at 22.5 grams per hectare in 200 litres of water per hectare using suitable spray equipment to give good spray cover of the docks. Rain occurring within four hours of application may reduce the effectiveness of the product. When applying PROSPECT® SX®, care should be taken to avoid overlap of spray swaths.

SET-ASIDE LAND

PROSPECT® SX® can be used for broad-leaved weed control in set-aside land within current guidelines and in accordance with the following instructions:

Apply 22,5 g product/hectare in 200 litres of water/hectare.
Apply only once per year.

Any crop may be sown in the same calendar year to set-aside land treated with PROSPECT® SX®.

Treated green cover on land temporarily removed from production must not be grazed by livestock or harvested for human consumption or used for animal bedding.

FOLLOWING CROPS

Sow only cereals or grass within four weeks of applying PROSPECT® SX® to established grassland or to set-aside land.

SOIL

PROSPECT® SX® can be used on all soil types.

VOLUME AND APPLICATION

BEFORE USING PROSPECT® SX®, SPRAYING EQUIPMENT MUST BE CLEAN AND FREE FROM CONTAMINATION WITH OTHER PESTICIDES.

Application should be made in 200 litres of water per hectare, using suitable ground equipment to give good spray cover of the weeds. When weed growth is dense, use 400 litres of water per hectare.

When applying PROSPECT® SX®, care should be taken not to overlap spray swaths.

MIXING

PROSPECT® SX® mixes easily with water, but the following mixing procedure should be followed: Quarter fill the spray tank with water, start

the agitation and add the required quantity of PROSPECT® SX® directly to the tank without prior creaming. Continue agitation while topping up the tank and while spraying. Use the spray the same day as mixing.

COMPATIBILITY

IN ANY TANK-MIX, ADD PROSPECT® SX® TO THE TANK FIRST AND ENSURE THAT THE GRANULES ARE FULLY DISPERSED BEFORE ADDING THE PARTNER PRODUCT.

PROSPECT® SX® alone or in tank-mix must not be applied to any crop suffering from stress or not actively growing. For up-to-date information on compatibility, consult your distributor.

WARNING

EXTREME CARE SHOULD BE TAKEN TO AVOID DRIFT OF SPRAY ONTO NEARBY BROAD-LEAVED CROPS, OR LAND INTENDED FOR CROPPING OR DESIRABLE TREES OR OTHER PLANTS. SPRAYING EQUIPMENT SHOULD NOT BE DRAINED OR FLUSHED ON LAND PLANTED WITH OR INTENDED FOR PLANTING WITH TREES OR CROPS OTHER THAN CEREALS.

SPRAY TANK CLEAN-OUT

TO AVOID SUBSEQUENT DAMAGE TO CROPS OTHER THAN CEREALS, IMMEDIATELY AFTER SPRAYING PROSPECT® SX® THOROUGHLY CLEAN ALL SPRAY EQUIPMENT, INCLUDING INSIDE AND OUTSIDE OF LID, USING THE FOLLOWING PROCEDURE:

Always start with a clean tank and spray system. Clean spray equipment thoroughly immediately after use.

1. Thoroughly and completely rinse all interior tank surfaces (including lid) with water (use at least 10% of the tank capacity), taking care to remove any visible deposits. Flush pump, filters and boom after removing in-line strainers, nozzle tips and screens (clean these parts separately). Drain the remainder of the rinsate from the tank.
2. Repeat the rinse, flush and drain.

GENERAL NOTES

Consult label tank cleanup procedures for all tank mix partners and be sure to use the most rigorous procedure recommended.

ADDITIONAL NOTE

PROSPECT® SX® is non-corrosive to equipment, non-flammable and non-volatile.

NOTICE TO BUYER

All goods supplied by us are of a high grade and we believe them to be suitable for any purpose for which we expressly supply them, but as we cannot exercise control over their mixing or use, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use.

SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 and 453/2010

PROSPECT® SX®

Version 6.0 (replaces: Version 5.0)

Revision Date 19.12.2014

Ref. 13000000398

This Safety Data Sheet adheres to the standards and regulatory requirements of the Republic of Ireland 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: PROSPECT® SX®
 Synonyms: B11646126
 DPX-M6316 50SG

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture: Herbicide

1.3. Details of the supplier of the safety data sheet

Company: Du Pont (UK) Limited
 Wedgwood Way
 Stevenage, Herts. SG1 4QN
 United Kingdom
 Telephone: +44 (0) 1438 734 000
 E-mail address: sds-support@che.dupont.com

1.4. Emergency telephone number

Emergency telephone number: +(353)-19014670
 Poison Centres may only possess information required for products in accordance with Regulation (EC) No 1272/2008 and national legislation.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Acute aquatic toxicity, Category 1: H400: Very toxic to aquatic life.
 Chronic aquatic toxicity, Category 1: H410: Very toxic to aquatic life with long lasting effects.
 Dangerous for the environment: R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements



Environment

Warning

H410: Very toxic 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.

P391: Collect spillage.

P501: Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

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).

2.3. Other hazards

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).

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Registration number	Classification according to Directive 67/548/EEC	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
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Thifensulfuron methyl (CAS-No.79277-27-3)

	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	50 %
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Sodium carbonate (CAS-No.497-19-8) (EC-No.207-838-8)

01-2119485498-19	Xi, R36	Eye Irrit. 2; H319	>= 10 - < 15 %
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The above products are REACH compliant; 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 R-phrases mentioned in this Section, see Section 16.
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: Never give anything by mouth to an unconscious person. For specialist advice contact the National Poisons Information Service. Healthcare Professionals: (01) 809 2566 or (01) 837 9964 (24h per day – 365 days per year). Public Poisons Information Line: (01) 809 2166 (8am-10pm).

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. 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:** Obtain medical attention. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is conscious: Rinse mouth with water.

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

- Symptoms:** No cases of human intoxication are known and the symptoms of experimental intoxication are not known.

4.3. Indication of any immediate medical attention and special treatment needed

- Treatment:** Treat symptomatically.

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 (NO_x)

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:** Control access to area. Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid breathing dust. Use personal protective equipment. 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 product contaminates rivers and lakes or drains inform respective authorities. If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal.

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. 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).
If spill area is on ground near valuable plants or trees, remove 5 cm of top soil after initial clean-up.

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. Use only clean equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust or spray mist. Wear personal protective equipment. For personal protection see section 8. 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. Provide appropriate exhaust ventilation at places where dust is formed. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Avoid exceeding the given occupational exposure limits (see section 8).

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.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Store in original container. Keep in properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep out of the reach of children.

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

Other data: Stable under recommended storage conditions.

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. Provide for appropriate exhaust ventilation and dust collection at machinery. 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: 0.3 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, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. The exact break through time can be obtained from the protective glove producer and this has to be observed. 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.

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. Tractor / sprayer without hood: Low application: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

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

Protective measures:

Hygiene measures:

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).

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.

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.

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 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. For environmental protection remove and wash all contaminated protective

equipment before re-use. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Dispose of rinse water in accordance with local and national regulations.

Respiratory protection: Manufacturing and processing work: Half mask with a particle filter FFP1 (EN149)

Mixer and loaders must wear: Half mask with a particle filter FFP1 (EN149)

Field and greenhouse application: Spray application - outdoor: Tractor / sprayer with hood: No personal respiratory protective equipment normally required. Tractor / sprayer without hood: Low application: Half mask with a particle filter FFP1 (EN149)

Backpack / knapsack sprayer: Half mask with a particle filter FFP1 (EN149)

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

Boiling point/boiling range: Not applicable

Flash point: Not applicable

Flammability (solid, gas): The product is not flammable.

Thermal decomposition: Not available for this mixture.

Auto-ignition temperature: Test Type :Auto-ignition temperature, does not ignite

Oxidizing properties: The product is not oxidizing.

Explosive properties: Not explosive

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

Vapour pressure: Not available for this mixture.

Relative density: Not available for this mixture.

Bulk density: 696 kg/m³, packed

Water solubility: soluble

Partition coefficient: n-octanol/water: Not applicable

Viscosity, kinematic: Not applicable

Relative vapour density: Not available for this mixture.

Evaporation rate: Not applicable

Minimum ignition energy: > 1,000 mJ

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form: granules

Colour: light brown

Odour: mild

Odour Threshold: not determined

pH: 9.2 at 10 g/l (25 °C)

Melting point/range: ca. 182 °C

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: To avoid thermal decomposition, do not overheat. 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: Sulphur oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

LD50 / Rat : > 5,000 mg/kg

Method: Fixed Dose Method

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

Acute inhalation toxicity:

• Thifensulfuron methyl

LC50 / 4 h Rat : > 7.9 mg/l

Acute dermal toxicity:

LD50 / Rabbit : > 2,000 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 Maximisation Test (GPMT)

Result: Animal test did not cause sensitization by skin contact. Method: US EPA Test Guideline OPPTS 870.2600

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

Repeated dose toxicity:

• Thifensulfuron methyl

The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral - feed multiple species
Reduced body weight gain

Oral - feed Rat
Increase in blood urea nitrogen, altered hematology

Mutagenicity assessment:

• Thifensulfuron methyl
Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.

Carcinogenicity assessment:

• Thifensulfuron methyl
Animal testing did not show any carcinogenic effects.

Toxicity to reproduction assessment:

• Thifensulfuron methyl
No toxicity to reproduction Animal testing showed no reproductive toxicity.

Assessment teratogenicity:

• Thifensulfuron methyl
Did not show teratogenic effects in animal experiments. Animal testing showed no 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:

static test / LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): > 120 mg/l
Method: OECD Test Guideline 203
(Data on the product itself) Information source: Internal study report

Toxicity to aquatic plants:

ErC50 / 72 h / *Selenastrum capricornutum* (green algae): < 1.6 mg/l
Method: OECD Test Guideline 201 (Data on the product itself)
EC50 / 7 d / *Lemna gibba* (duckweed): 0.0014 mg/l

Method: OECD Test Guideline 221
(Data on the product itself) Information given is based on tests on the mixture itself. Toxicity to aquatic invertebrates

static test / EC50 / 48 h / *Daphnia magna* (Water flea): > 120 mg/l
Method: OECD Test Guideline 202 (Data on the product itself)

Chronic toxicity to fish:

Thifensulfuron methyl
NOEC / 21 d / *Oncorhynchus mykiss* (rainbow trout): > 250 mg/l
NOEC / 62 d / *Oncorhynchus mykiss* (rainbow trout): 10.6 mg/l

Chronic toxicity to aquatic Invertebrates

• Thifensulfuron methyl

NOEC / 28 d / Americamysis bahia (mysid shrimp): 7.93 mg/l

EC50 / 21 d / Daphnia magna (Water flea): > 340 mg/l

Information source: Internal study report

NOEC / 21 d / Daphnia magna (Water flea): > 340 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:

Moderately mobile in 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

No other ecological effects to be specially mentioned See product label for additional application instructions relating to environmental precautions.

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.

SECTION 14: Transport information

ADR

- | | |
|-------------------------------------|--|
| 14.1. UN number: | 3077 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron-methyl) |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packing group: | III |
| 14.5. Environmental hazards: | For further information see Section 12. |
| 14.6. Special precautions for user: | Tunnel restriction code: (E) |

IATA C

- 14.1. UN number: 3077
14.2. UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Thifensulfuron-methyl)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
14.5. Environmental hazards : For further information see Section 12.
14.6. Special precautions for user: DuPont internal recommendations and transport guidance: ICAO / IATA cargo aircraft only

IMDG

- 14.1. UN number: 3077
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron-methyl)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
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

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 mixture is registered as a plant protection product under Regulation (EC) No. 1107/2009. Refer to the label for exposure assessment information.

SECTION 16: Other information

Text of R-phrases mentioned in Section 3

R36: Irritating to eyes.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under section 3.

H319: Causes serious eye irritation. H400 Very toxic to aquatic life.
H410: Very 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
OECD	Organisation for Economic Co-operation and Development
OPPTS	Office of Prevention, Pesticides and Toxic Substances
PBT	Persistent, Bioaccumulative and Toxic
STEL	Short term exposure limit
TWA	Time Weighted Average (TWA)
vPvB	very Persistent and very Bioaccumulative

Further information

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

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