



K-35830/31504 - UK-IRELAND - (BASE) PAGE 2

#### SAFETY INFORMATION LEXUS® CLASS

##### Herbicide

containing 33.3% w/w carfentrazone-ethyl and  
16.7% w/w flupyr-sulfuron-methyl

**May cause an allergic skin reaction**

**Causes serious eye irritation**

**Very toxic to aquatic life with long lasting effects**

Avoid breathing spray.

Wear protective gloves / protective clothing /  
eye protection / face protection.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for  
several minutes. Remove contact lenses, if  
present and easy to do. Continue rinsing.  
Wash contaminated clothing before reuse.

Collect spillage.

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

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).

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

MAPP No 10809, PCS No 02258

#### WARNING



DuPont™

**Lexus® Class**

CEREALS HERBICIDE



GROUP

E; B

HERBICIDE



**MAPP No 10809, PCS No 02258**

A water dispersible granule containing 33.3% w/w carfentrazone-  
ethyl and 16.7% w/w flupyr-sulfuron-methyl for the control of  
black-grass and broad-leaved weeds in winter wheat, winter  
oats, winter rye and triticale.

® Registered trademark of E.I. du Pont de Nemours and Company



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**Contents:**

**60 g e**

(UK only) The (COSHH) Control of Substances Hazardous to  
Health Regulations may apply to the use of this product at  
work.

*Manufactured in the E.U*

Du Pont (UK) Limited, Crop Protection Products  
Wedgwood Way, STEVENAGE, Herts. SG1 4QN

Tel: 00 44 1438 734450 or

enquiry.agproducts@gbr.dupont.com

Emergency Tel +(44) -870-8200418 (UK)

or +(353) 190 14670 (Ireland)

National Poisons Information Service; 111 (England and  
Wales); 08454 24 24 24 (Scotland) and 01 809 2166 or 01 837  
9964 (Ireland)



The Voluntary Initiative

(UK only)  
**This label is compliant  
with the  
CPA Voluntary Initiative  
Guidance**

K-35830/31504 - UK-IRELAND

JAUNE

## DIRECTIONS FOR USE

**IMPORTANT:** This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

### Restrictions

- LEXUS CLASS must not be applied to any crop suffering from stress as a result of drought, water-logging, low temperature, pest or disease attack, nutrient deficiency, soil compaction or other factors reducing crop growth.
- Do not use LEXUS CLASS on crops undersown with grasses, clover or other legumes or any other broad-leaved crop.
- Because some non-target crops are highly sensitive to LEXUS CLASS, **avoid damage by drift onto broad-leaved plants outside the target area, or onto surface waters or ditches.** **Thorough cleansing of equipment is also very important** - see separate section.
- Do not apply within seven days of rolling the crop.
- Only the following sulfonylurea and other 'ALS inhibiting' herbicides can be applied to a crop previously treated with Lexus Class:
  - Ally SX, Lorate, (UK only) Jubilee SX, Alias SX, Answer SX, Cleancrop Mondial, Grop-per SX, Simba SX
  - Concert SX, Finish SX, Harmony M SX, Presite SX, Mozaic SX
  - Cameo SX (Ireland only), Thor
  - Ratio SX, Parana, Seduce

**Crop Failure** - In the event of crop failure for any reason, sow only winter wheat or spring

wheat between one and three months of application of LEXUS CLASS. Prior to re-sowing, soil should be ploughed and cultivated to a depth of at least 15 cm.

### Weed Control

LEXUS CLASS is a highly active herbicide with foliar and root activity against black-grass and a wide range of broad-leaved weeds. It is most effective when applied to small actively growing weeds. The time taken for symptoms to appear and death to occur may vary between species. In some weed species, depending on weather conditions, symptoms may not be apparent for up to four weeks.

Good spray cover of the weeds must be obtained. LEXUS CLASS has a moderate residual life in soil under normal conditions. High soil temperatures reduce the residual activity due to increased degradation of the active ingredient. Weed control may also be reduced when soil conditions are very dry. Nevertheless, with adequate soil moisture, susceptible weeds germinating soon after treatment will be controlled.

### Weed resistance

(UK only) This product contains flupyr-sulfuron-methyl, which is an ALS-inhibitor, also classified by the Herbicide Resistance Action Committee as 'Group B'.

Use only as part of a resistance management strategy that includes cultural methods of control and does not use ALS inhibitors as the sole chemical method of grass-weed control.

When herbicides with the same mode of action are used repeatedly over several years in 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.

Strains of some annual grasses (e.g. black-grass, wild oats, and Italian rye-grass) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing resistance should be adopted.

Resistance management strategies should integrate both chemical and cultural approaches. Cultural measures play an essential role in limiting weed populations and preventing or reducing the risk of resistance development e.g. ploughing, delayed drilling, rotations, stale seed-beds. However, herbicides are also important in preventing crop competition and reducing seed shed. For black-grass resistance management LEXUS CLASS should be tank-mixed or sequenced with a partner even where no current resistance is suspected e.g. pendimethalin.

(UK only) Additional guidelines on resistance management have been produced by the Weed Resistance Action group and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

#### **Susceptible weeds**

##### **• Broad-leaved weeds**

The susceptible ratings of weeds in the following table refer to good spray cover and good growing conditions.

Broad-leaved weed species	Plants up to 2 expanded true leaves	Plants up to 6 expanded true leaves
Charlock	S	S
Chickweed, Common	S	S
Cleavers	S	S
Crane's-bill	S	S
Dead-nettle, Red	S	S
Field-speedwell, Common	S	S
Forget-me-not, Field	S	S
Groundsel	S	S
Mayweeds	S	S
Pansy, Field	S	S
Poppy, Common	S	S
Shepherd's-purse	S	S
Speedwell, Ivy-leaved	S	S
Volunteer Oilseed rape	S	S

S = Susceptible

A dose of 36 g/ha is sufficient if the weed population only contains shepherds purse, volunteer oilseed rape, charlock, mayweeds and/or groundsel at the above growth stages. This should be increased to 48 g/ha if red dead-nettle, chickweed and / or forget-me-not are present. The full dose (60 g/ha) should be applied for activity on other or larger weeds beyond these growth stages.

**BLACK**

• **Black-grass**

Optimal control of black-grass is achieved following application from the 1 leaf stage to before first node detectable. Control is reduced beyond this stage.

**Crops**

LEXUS CLASS can be used on all varieties of winter wheat, winter oats, winter rye and triticale between the growth stages given below.

Under certain climatic, soil and crop conditions, some slight chlorosis and stunting of the crop may occur. Crops will quickly recover and there will be no effect on grain yield.

**Following crops**

Only cereals, oilseed rape, field beans, red and white clover or grass may be sown in the year of harvest to succeed a cereal crop treated with LEXUS CLASS.

**Timings**

Winter wheat: From 2 leaf stage (GS 12) to before first node detectable (GS 30).

Winter oats, winter rye, triticale: From 2 leaf stage to December 31.

**Volume and application**

BEFORE USING LEXUS CLASS, SPRAYING EQUIPMENT MUST BE CLEAN AND FREE FROM CONTAMINATION WITH OTHER PESTICIDES.

Application should be made in 200-400 litres of water per hectare using suitable ground equipment to give good spray cover of the weeds. The spray quality should be MEDIUM (as defined by BCPC), applied at a pressure of 2-3 bar. When crops are thick or weed growth is dense, use the higher volume.

When applying LEXUS CLASS, care should be taken not to overlap spray swaths.

**Dose**

Apply LEXUS CLASS at 60g/ha.

**Soil**

LEXUS CLASS can be used on all soil types. On highly alkaline soils (pH > 7.7) the residual activity of LEXUS CLASS is reduced. LEXUS CLASS is more persistent in soils of low pH.

**Mixing**

Half-fill the spray tank with clean water. Commence agitation. Steadily add the recommended quantity of LEXUS CLASS to the spray tank (pre-mixing is not necessary). Complete filling and maintain agitation of the suspension before and during spraying until the tank is empty.

**Compatibility**

Do not use any product in a tank-mix if the mixture cannot be applied within the recommendations for all the separate ingredients.

When using LEXUS CLASS in a tank-mix, always add LEXUS CLASS to the spray tank first.

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Tank-mix partner	Crops
Pendimethalin (M 13405, PCS 02879)	Winter wheat, triticale, winter rye
Cypermethrin (M 15696, PCS 91432)	Winter wheat, winter oats, triticale, winter rye

For additional compatibility information, please consult the DuPont compatibilities product manual insert.

### WARNING

EXTREME CARE SHOULD BE TAKEN TO AVOID DAMAGE BY DRIFT TO BROAD-LEAVED PLANTS OUTSIDE THE TARGET AREA OR ONTO PONDS, WATERWAYS OR DITCHES OR LAND INTENDED FOR CROPPING. SPRAYING EQUIPMENT SHOULD NOT BE DRAINED OR FLUSHED ONTO 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 LEXUS CLASS THOROUGHLY CLEAN ALL SPRAY EQUIPMENT INCLUDING INSIDE AND OUTSIDE OF LID USING ALL CLEAR™ EXTRA SPRAYER CLEANER ACCORDING TO THE LABEL INSTRUCTIONS.

1. Immediately after spraying, drain tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.

2. Rinse inside of tank with clean water and flush through boom and hoses using at least one-tenth of the spray tank volume. Drain tank completely.
3. Half fill tank with clean water and add DuPont ALL CLEAR™ EXTRA at the recommended rate. Agitate and then flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full and allow to stand for 15 minutes with agitation. Again flush the boom and hoses and drain tank completely.
4. Nozzles and filters should be removed and cleaned separately with an ALL CLEAR™ EXTRA solution containing 50 ml of ALL CLEAR™ EXTRA per 10 litres of water.
5. Rinse the tank with clean water and flush through the boom and hoses using at least one-tenth of the spray tank volume. Drain tank completely.
6. (UK only) For disposal of washings, follow the 'Code of Practice for Using Plant Protection Products' (DEFRA Publications, 2006). Do not spray onto sensitive crop or land intended for cropping with sensitive crop.

NOTE: If it is not possible to drain the tank completely, step 3 must be repeated before going on to step 4.

### 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.

*All trademarks duly acknowledged.*

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## **SAFETY PRECAUTIONS**

### **Operator protection**

(UK only) Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

**WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES** when handling the concentrate.

(UK only) However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

**WASH CONCENTRATE** from skin or eyes immediately

**WHEN USING DO NOT EAT DRINK OR SMOKE**

**DO NOT BREATHE SPRAY**

**AVOID ALL CONTACT WITH SKIN**

**WASH HANDS AND EXPOSED SKIN** before eating and drinking and after work

### **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. (Ireland only) To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

### **Storage and disposal**

**KEEP OUT OF REACH OF CHILDREN**

**KEEP IN ORIGINAL CONTAINER**, tightly closed, in a safe place

**EMPTY CONTAINER COMPLETELY** and dispose of safely

**WASH OUT CONTAINER THOROUGHLY**, empty washings into spray tank and dispose of safely.

**KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS**

## **Section 6 of the Health and Safety at Work Act**

### **Additional Product Safety Information**

**(This section does not form part of the product label under the Control of Pesticide Regulations 1986)**

**The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has "off-label" approval or is otherwise permitted under the Control of Pesticides Regulations.**

**The information on this label is based on the best available information including data from test results**

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## SAFETY INFORMATION

### LEXUS® CLASS

#### Herbicide

containing 33.3% w/w carfentrazone-ethyl and 16.7% w/w flupyr-sulfuron-methyl

**May cause an allergic skin reaction**

**Causes serious eye irritation**

**Very toxic to aquatic life with long lasting effects**

Avoid breathing spray.

Wear protective gloves / protective clothing / eye protection / face protection.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Wash contaminated clothing before reuse.

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

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).

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

## WARNING



**MAPP No 10809, PCS No 02258**

## **IMPORTANT INFORMATION**

**Field of Use:** FOR USE ONLY AS A PROFESSIONAL HERBICIDE

**Crops:** Winter wheat, winter oats, winter rye and triticale

**Maximum individual dose:** 60 g product per hectare

**Maximum number of treatments:** One per crop

**Latest time of application:**

**Winter wheat:** Before first node detectable.

**Winter oats, winter rye, triticale:** 31 December

### **Other Specific Restrictions**

To avoid the build up of resistance do not apply this or any other product containing an ALS inhibitor herbicide with claims for control of grass-weeds more than once to any crop.

**READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

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

# LEXUS® CLASS

Version 4.0 (replaces: Version 3.0)

Revision Date 29.01.2015

Ref. 130000000607

This Safety Data Sheet adheres to the standards and regulatory requirements of Great Britain and Ireland and may not meet the regulatory requirements in other countries.

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name : LEXUS® CLASS  
 Synonyms : DPX-KS999 50WG  
 B10355325

### 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: +(44) -870-8200418 (UK)  
 or +(353) 190 14670 (Ireland)  
 : 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

Skin sensitisation,  
 Category 1 H317: May cause an allergic skin reaction.  
 Serious eye damage/eye irritation,  
 Category 2 H319: Causes serious eye irritation.

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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.
Irritant	R43: May cause sensitisation by skin contact.
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



### Warning

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.

### Special labelling of certain substances and mixtures

P261

P280

P302 + P352

P305 + P351 + P338

P363

P391

P501

SP 1

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.,

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray

Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Wash contaminated clothing before reuse.

Collect spillage.

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.

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 Directive 67/548/EEC	Classification according Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)

**Carfentrazone-ethyl (ISO) (CAS-No.128639-02-1)**

	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	33.3 %
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**flupyrsulfuron-methyl-sodium (ISO); methyl 2-[[[4,6-dimethoxypyrimidin-2-yl]carbamoyl]sulfamoyl]-6-trifluoromethyl]nicotinate, monosodium salt (CAS-No.144740-54-5)**

(M-Factor : 100[Acute] 100[Chronic])

	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	16.7 %
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**2,4,7,9-Tetramethyldec-5-yne-4,7-diol (CAS-No.126-86-3) (EC-No.204-809-1)**

	Xi;R41 R43 R52/53	Eye Dam. 1; H318 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 1 - < 5 %
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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:  
 - UK: Tel. 111 for England and Wales and Tel. 08454 24 24 24 for Scotland.  
 - Ireland: 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).

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- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.
- 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.  
: 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, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

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 (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>)

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



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**SECTION 6: Accidental release measures**

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**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions: Use personal protective equipment. 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 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 promptly by scoop or vacuum. Use approved industrial vacuum cleaner for removal. If spill area is on ground near valuable plants or trees, remove 5 cm of top soil after initial clean-up. Shovel into suitable container for disposal.

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.

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**SECTION 7: Handling and storage**

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**7.1. Precautions for safe handling**

Advice on safe handling:

Wear personal protective equipment. 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.

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.

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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:  
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. Keep away from food, drink and animal feedingstuffs.

Store in a place accessible by authorized persons only. Store in original container. Keep in properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

Advice on common storage:  
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.

#### Components with workplace control parameters

Type Form of exposure	Control parameters	Update	Basis	Remarks
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#### Quartz (CAS-No. 14808-60-7)

TWA Respirable dust.	0,1 mg/m <sup>3</sup>	2010	ELV (IE)	
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### 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: 0.4 - 0.7 mm

Glove length: Gauntlets of 35 cm long or longer.

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. Gauntlets shorter than 35 cm long shall be worn under the combination sleeve.

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) Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Rubber apron

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

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

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.

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. 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.

Protective measures : 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. The type of protective equipment must be selected ac-

cording to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures :** Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands 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)

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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form	: solid
Colour	: tan
Odour	: slight, characteristic
Odour Threshold	: not determined
pH	: 8.4 at 10 g/l ( 20 °C), Method: CIPAC MT 75
Melting point/range	: Not available for this mixture.
Flash point	: Not applicable
Flammability (solid, gas)	: not auto-flammable
Auto-ignition temperature	: Test Type : Auto-ignition temperature, no data available
Explosive properties	: Not explosive
Lower explosion limit/	
lower flammability limit	: no data available
Upper explosion limit/	
upper flammability limit	: Not available for this mixture.
Relative density	: no data available
Water solubility	: dispersible
Partition coefficient	
n-octanol/water	: Not applicable
Viscosity, kinematic	: no data available
Evaporation rate	: no data available



**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**

Exposure to moisture Decomposes slowly on exposure to water. 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**

Hydrogen fluoride, Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride gas

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

LD50 / Rat : > 5,000 mg/kg

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

**Acute inhalation toxicity**

- Carfentrazone-ethyl (ISO)

LC50 / 4 h Rat : > 5.09 mg/l

- flupyr-sulfuron-methyl-sodium (ISO); methyl 2-[[[4,6-dimethoxypyrimidin-2-yl-carbamoyl]sulfamoyl]-6-trifluoromethyl]nicotinate, monosodium salt

LC50 / 4 h Rat : > 5.8 mg/l

**Acute dermal toxicity**

LD50 / Rat : > 2,000 mg/kg

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

**Skin irritation**

Result: No skin irritation

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

**Eye irritation**

Result: No eye irritation

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

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## Sensitisation

## Maximisation Test (GPMT)

Result: May cause sensitisation by skin contact.

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

## Repeated dose toxicity

- Carfentrazone-ethyl (ISO)

Oral multiple species

Exposure time: 28 d  
altered hematology, Liver effects

Oral Rat

Liver effects

Oral - feed Mouse

Reduced body weight gain, Organ weight changes, Liver damage

- flupyrsulfuron-methyl-sodium (ISO); methyl 2-[[[4,6-dimethoxypyrimidin-2-yl-carbamoyl)sulfamoyl]-6-trifluoromethyl]nicotinate, monosodium salt

Oral Rat

Exposure time: 90 d

NOAEL: 2,000 mg/kg

Organ weight changes, Liver effects, Reduced body weight gain

## Mutagenicity assessment

- Carfentrazone-ethyl (ISO)

Did not show mutagenic effects in animal experiments.

- flupyrsulfuron-methyl-sodium (ISO); methyl 2-[[[4,6-dimethoxypyrimidin-2-yl-carbamoyl)sulfamoyl]-6-trifluoromethyl]nicotinate, monosodium salt  
Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

## Carcinogenicity assessment

- Carfentrazone-ethyl (ISO)

Did not show carcinogenic effects in animal experiments.

- flupyrsulfuron-methyl-sodium (ISO); methyl 2-[[[4,6-dimethoxypyrimidin-2-yl-carbamoyl)sulfamoyl]-6-trifluoromethyl]nicotinate, monosodium salt

Possible human carcinogen

## Toxicity to reproduction assessment

- Carfentrazone-ethyl (ISO)

Animal testing did not show any effects on fertility.

- flupyrsulfuron-methyl-sodium (ISO); methyl 2-[[[4,6-dimethoxypyrimidin-2-yl-carbamoyl)sulfamoyl]-6-trifluoromethyl]nicotinate, monosodium salt

No toxicity to reproduction

## Assessment teratogenicity

- Carfentrazone-ethyl (ISO)

Animal testing did not show any effects on foetal development.

- flupyrsulfuron-methyl-sodium (ISO); methyl 2-[[[4,6-dimethoxypyrimidin-2-yl-carbamoyl)sulfamoyl]-6-trifluoromethyl]nicotinate, monosodium salt  
No toxicity to reproduction

#### STOT - single exposure

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

#### STOT - repeated exposure

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

#### Aspiration hazard

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

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Toxicity to fish

LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): 5.1 mg/l

#### Toxicity to aquatic plants

EbC50 / 120 h / Pseudokirchneriella subcapitata (green algae): 0.047 mg/l

#### Toxicity to aquatic invertebrates

EC50 / 48 h / Daphnia (water flea): 48 mg/l

#### Chronic toxicity to fish

- Carfentrazone-ethyl (ISO)  
NOEC / 21 d / Oncorhynchus mykiss (rainbow trout): 0.11 mg/l
- flupyrsulfuron-methyl-sodium (ISO); methyl 2-[[[4,6-dimethoxypyrimidin-2-yl-carbamoyl)sulfamoyl]-6-trifluoromethyl]nicotinate, monosodium salt  
Early Life-Stage / NOEC / 90 d / Oncorhynchus mykiss (rainbow trout): 57 mg/l

#### Chronic toxicity to aquatic Invertebrates

- Carfentrazone-ethyl (ISO)  
NOEC / 21 d / Daphnia magna (Water flea): 0.22 mg/l
- flupyrsulfuron-methyl-sodium (ISO); methyl 2-[[[4,6-dimethoxypyrimidin-2-yl-carbamoyl)sulfamoyl]-6-trifluoromethyl]nicotinate, monosodium salt  
NOEC / 21 d / Daphnia magna (Water flea): 16 mg/l

### 12.2. Persistence and degradability

#### Biodegradability

Not readily biodegradable.

### 12.3. Bioaccumulative potential

#### Bioaccumulation

Does not bioaccumulate. Information refers to the main component.

**12.4. Mobility in soil**

Mobility in soil

Potentially mobile, but the leaching potential is mitigated by rapid degradation.

**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. (Carfentrazone ethyl, flupyr-sulfuron-methyl-sodium)
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. (Carfentrazone ethyl, flupyr-sulfuron-methyl-sodium)
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	

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**IMDG**

- 14.1. UN number: 3077
- 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Carfentrazone ethyl, flupyrsul-furon-methyl-sodium)
- 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**

The mixture is registered as a plant protection product under Regulation (EC) No. 1107/2009.

A Chemical Safety Assessment is not required for this/these products  
Refer to the label for exposure assessment information.

**SECTION 16: Other information****Text of R-phrases mentioned in Section 3**

- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful 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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