

 **OPEN HERE**

Safety Information
ALLY EXPRESS
 Herbicide containing
 40% w/w carfentrazone-ethyl and
 10% w/w metsulfuron-methyl
May cause an allergic skin reaction
**Very toxic to aquatic life with
 long lasting effects**

Wear protective gloves/
 protective clothing.
 IF ON SKIN: Wash with plenty
 of soap and water.
 If skin irritation or rash occurs:
 Get medical advice/attention
 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**

MAPP No 08640, PCS No 02259




WARNING



DuPont™
Ally Express®
 CEREAL HERBICIDE

GROUP E; B HERBICIDE



**MAPP No 08640,
 PCS No 02259**



A water dispersible granule formulation containing 40% w/w carfentrazone-ethyl and 10% w/w metsulfuron-methyl, a sulfonylurea, for the control of broad-leaved weeds in winter wheat, winter barley, winter oats, spring wheat, spring barley, spring oats, durum wheat and triticale.

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

100 g e

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

For Professional use only

Manufactured in the EU

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 (0) 870 820 0418 (UK) or +353 (0) 190 14670
 Ireland: National Poisons Centre (01) 837 9964 or (01) 809 2166
 UK: National Poisons Information Service
 111 (England and Wales) and 08454 24 24 24 (Scotland)



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



K-35678/31502 - UK-IRELAND

Lot Nr.:

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops: Wheat, barley, oats, durum wheat and triticale.
Maximum individual dose: 50 g product/ha
Maximum number of treatments: One per crop
Latest time of application: Before third node detectable (GS33)

OTHER SPECIFIC RESTRICTIONS:

This product must only be applied from 1 February in the year of harvest until the specified latest time of application.

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

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

WHEN USING DO NOT EAT, DRINK OR SMOKE

AVOID ALL CONTACT WITH SKIN

WASH CONCENTRATE from skin or eyes immediately

DO NOT BREATHE SPRAY

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

Storage and disposal

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

EMPTY CONTAINER COMPLETELY and dispose of safely

THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY

USE APPROPRIATE CONTAINMENT to avoid environmental contamination

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS

KEEP OUT OF REACH OF CHILDREN

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

- ALLY EXPRESS 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 ALLY EXPRESS on crops undersown with grasses, clover or other legumes or any other broad-leaved crop.
- Because some non-target crops are highly sensitive to ALLY EXPRESS, **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.
- Contract agents should be consulted before using on crops grown for seed'.
- Refer to 'Compatibility' for details on use of ALLY EXPRESS with other 'ALS inhibiting' herbicides.

Weed Control

ALLY EXPRESS contains two active ingredients with different modes of action. ALLY EXPRESS inhibits weed growth within hours of treatment, thus preventing competition within the crop. Many weeds show marked colour changes as they die back after treatment, but the time taken for these symptoms to appear and final death of the weed will vary according to species and weather conditions. ALLY EXPRESS has a short residual life in soil and, under normal moisture conditions, susceptible weeds germinating soon after treatment will be controlled.

Weed Resistance

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. A strategy for preventing and managing resistance should be adopted. (UK only) The Weed Resistance Action Groups have produced guidelines and copies are available from the TEAGASC, HGCA, CPA, your distributor, crop adviser or product manufacturer'.

Susceptible weeds

The susceptibility 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
Fat-hen	S	MS
Forget-me-not, Field	S	S
Groundsel	S	S
Knotgrass	S	MS
Mayweeds	S	S
Pansy, Field	S	MS
Poppy, Common	S	S
Red Dead-nettle	S	S
Redshank	S	S
Speedwell, Common	S	S
Speedwell, Ivy-leaved	S	S

S = Susceptible - MS = Moderately Susceptible

Soil

ALLY EXPRESS can be used on all soil types.

Volume and application

BEFORE USING ALLY EXPRESS, 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 dense, use the higher volume.

When applying ALLY EXPRESS care should be taken not to overlap spray swaths.

Mixing

Half-fill the spray tank with clean water. Commence agitation. Steadily add the recommended quantity of ALLY EXPRESS 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

To widen the spectrum of activity and improve the control of some weeds,

ALLY EXPRESS may be applied with other herbicides, provided each product can be applied within the label recommendations for its use. Always add ALLY EXPRESS to the spray tank first when using in tank-mix.

The following 'joint application' with other sulfonylurea and 'ALS inhibiting' herbicides may be applied to a crop. Requirements and restrictions on other product labels must be adhered to. 'Joint application' is the use of ALLY EXPRESS in tank mixture or sequence with one of the products listed below.

Absolute (UK only)	GF-184 (UK only)	Lexus Millenium
Atlantis WG (UK only)	Hatra (UK only)	Octavian (UK only)
Barton WG (UK only)	Hiker (UK only)	Othello (UK only)
Boxer	Horus (UK only)	Pacifica
Bullion (UK only)	Hunter (UK only)	Starane Gold
Excalibur (UK only)	Lexus Class	Starane Vantage (UK only)
Galaxy	Lexus SX (UK only)	Starane XL

Crops

ALLY EXPRESS can be used on all varieties of winter wheat, winter barley, winter oats, spring wheat, spring barley, spring oats, durum wheat and triticale between the growth stages given below. Under

certain climatic, soil and crop conditions, some slight necrotic spotting of the crop may occur. Crops will quickly recover and there will be no effect on grain yield or quality.

Timings

ALLY EXPRESS can be applied in the spring from the 3-leaf stage (GS13) up to before third node detectable stage (GS33).

Dose

Apply ALLY EXPRESS at 50 g/ha.

Following Crops

Only cereals, oilseed rape, field beans or grass may be sown in the same calendar year to succeed a cereal crop treated with ALLY EXPRESS.

Crop Failure

In the event of crop failure, for any reason, only winter wheat may be sown between one and three months after application of ALLY EXPRESS. Prior to resowing soil should be ploughed and cultivated to a depth of at least 15 cm. After three months follow recommendations in the 'Following crops' section.

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 ALLY EXPRESS 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 manufacturers' trademarks are duly acknowledged.

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

Version 5.0 (replaces: Version 4.0)

Revision Date 28.01.2015

Ref. 13000000606

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: ALLY® EXPRESS
 Synonyms: B10357452
 DPX-KW025 50DF

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

Skin sensitisation, Category 1B: H317: May cause an allergic skin reaction.
 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.

Sensitising: 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.

NOIR

2.2. Label elements**Exclamation mark****Environment****Warning**

H317: May cause an allergic skin reaction.

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.

P280: Wear protective gloves/ protective clothing.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.

P363: Wash contaminated clothing before reuse.

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)

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

	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	40 %
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Metsulfuron methyl (CAS-No. 74223-64-6)**(M-Factor: 1,000[Acute] 1,000[Chronic])**

	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	10 %
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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	>= 5 - < 10 %
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Calcium oxide (CAS-No. 1305-78-8) (EC-No. 215-138-9)

	Xi; R41	Eye Dam. 1; H318	>= 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. 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: Remove person to fresh air. If signs/symptoms continue, get medical attention. 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, Foam, Dry chemical, Carbon dioxide (CO₂)

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

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting: Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO₂) Nitrogen oxides (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 spill area is porous, the contaminated material must be collected for subsequent treatment or disposal. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up: Clean-up methods - small spillage Sweep up or vacuum up spillage and collect in suitable container for disposal.

Clean-up methods - large spillage Avoid dust formation. 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 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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Kaolin (CAS-No. 1332-58-7)

TWA Respirable dust.	2.0 mg/m ³	2010	ELV (IE)	
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Calcium oxide (CAS-No. 1305-78-8)

TWA	2 mg/m ³	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.

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

Hand protection: Material: Nitrile rubber
Glove thickness: 0.4 - 0.7 mm
Glove length: Gauntlets of 35 cm long or longer.
Protection index: Class 6
Wearing time: 8 h

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

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.

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 6 (EN 13034) Nitrile rubber boots (EN 13832-
3 / EN ISO 20345).

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

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

When exceptional circumstances would 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 2 (EN 374) and nitrile rubber
boots (EN 13832-3 / EN ISO 20345).

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

Protective measures:

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

Hygiene measures:

Handle in accordance with good industrial hygiene and
safety practice. Regular cleaning of equipment, work area
and clothing. Keep working clothes separately.
Contaminated work clothing should not be allowed out of
the workplace. Wash hands 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: Low application: Half mask with a particle filter FFP1 (EN149)

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

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

Melting point/range:

Boiling point/boiling range:

Flash point:

Flammability (solid, gas):

Thermal decomposition:

Auto-ignition temperature:

Oxidizing properties:

Explosive properties:

Lower explosion limit/ lower flammability limit:

Upper explosion limit/ upper flammability limit:

Vapour pressure:

Relative density:

Bulk density:

Water solubility:

Partition coefficient: n-octanol/water:

Viscosity, kinematic:

Relative vapour density:

Evaporation rate:

Not available for this mixture.

no data available

Not applicable

The product is not flammable.

Not available for this mixture.

Test Type :Auto-ignition temperature, Not available for this mixture.

The product is not oxidizing.

Not explosive

Not available for this mixture.

Not available for this mixture.

Not available for this mixture.

Not applicable

680 kg/m³

dispersible

no data available

Not applicable

Not applicable

Not applicable

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form:	solid
Colour:	tan
Odour:	mild, aromatic
Odour Threshold:	not determined
pH:	8.3 at 10 g/l (20 °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: No materials to be especially mentioned.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

LD50 / Rat : > 5,000 mg/kg

Method: OECD Test Guideline 401

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

Acute inhalation toxicity:

• Carfentrazone-ethyl (ISO)

LC50 / 4 h Rat : > 5.09 mg/l

• Metsulfuron methyl

LC50 / 4 h Rat : > 5.3 mg/l

Acute dermal toxicity:

LD50 / Rat : > 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: Causes sensitisation.

Method: OECD Test Guideline 406

(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

- Metsulfuron methyl

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

Oral Rat

Exposure time: 90 d

Reduced body weight gain, Liver effects

Dermal Rabbit

Exposure time: 21 d

NOAEL: 125 mg/kg

Drying of skin, Cracking of skin, Skin irritation

Oral Rat

Reduced body weight gain, Organ weight changes, Liver

Dermal Rabbit

Skin irritation

Mutagenicity assessment:

- Carfentrazone-ethyl (ISO)

Did not show mutagenic effects in animal experiments.

- Metsulfuron methyl

Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.

Carcinogenicity assessment:

- Carfentrazone-ethyl (ISO)

Did not show carcinogenic effects in animal experiments.

- Metsulfuron methyl

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



Toxicity to reproduction assessment:

- Carfentrazone-ethyl (ISO)

Animal testing did not show any effects on fertility.

- Metsulfuron methyl

No toxicity to reproduction Animal testing did not show any effects on fertility.

Assessment teratogenicity:

- Carfentrazone-ethyl (ISO)

Animal testing did not show any effects on foetal development.

- Metsulfuron methyl

Animal testing showed no developmental toxicity.

STOT - single exposure:

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

STOT - repeated exposure:

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

Aspiration hazard:

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

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:

LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): 4.3 mg/l

Method: OECD Test Guideline 203

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

Toxicity to aquatic plants:

ErC50 / 72 h / *Pseudokirchneriella subcapitata* (green algae): 0.14 mg/l

Method: Directive 67/548/EEC, Annex V, C.3.

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

Toxicity to aquatic invertebrates:

EC50 / 48 h / *Daphnia magna* (Water flea): > 100 mg/l

Method: OECD Test Guideline 202

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

Chronic toxicity to fish:

- Carfentrazone-ethyl (ISO)

NOEC / 21 d / *Oncorhynchus mykiss* (rainbow trout): 0.11 mg/l

- Metsulfuron methyl

NOEC / 21 h / *Oncorhynchus mykiss* (rainbow trout): 68 mg/l

Chronic toxicity to aquatic Invertebrates:

- Carfentrazone-ethyl (ISO)
NOEC / 21 d / Daphnia magna (Water flea): 0.22 mg/l
- Metsulfuron methyl
NOEC / 21 h / Daphnia magna (Water flea): 100 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:

Under actual use conditions the product has a low potential of mobility in soil.

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. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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, Metsulfuron 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. (Carfentrazone ethyl, Metsulfuron 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. (Carfentrazone ethyl, Metsulfuron 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

No Chemical Safety Assessment has been carried out for this mixture. 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**

R41 Risk of serious damage to eyes.

NOIR

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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