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Safari® Lite WSB

BEET HERBICIDE

GROUP	C1; B	HERBICIDE
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PCS No: 02132

A blend of water-dispersible granules and wettable powder in a water-soluble bag and containing 750 g/kg lenacil and 57 g/kg triflusaluron methyl for use as an agricultural herbicide for the control of broad-leaved weeds in sugar and fodder beet.

Manufactured in the EU.

FOR PROFESSIONAL USE ONLY

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

Emergency Tel: 01 901 4670
National Poisons Information Service (24hours): 01 837 9964

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE IN SUGAR BEET AND FODDER BEET

For the control of certain broad-leaved weeds in sugar beet and fodder beet.

Maximum individual dose: 280 g/ha (1 WSB/ha)

Maximum number of treatments: 3 per crop

Latest time of application: Before crop meets in row

Method of application: Tractor mounted sprayer

READ ALL SAFETY INFORMATION BEFORE USE

SAFETY INFORMATION

Safari® Lite WSB

Herbicide containing
750 g/kg lenacil and
57 g/kg triflusaluron methyl

Very toxic to aquatic life with long lasting effects.
Suspected of causing cancer

Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.
If exposed or concerned: Get medical advice/attention.
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 02132

WARNING



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).
To protect aquatic organisms respect an unsprayed buffer zone of 5 m to surface water bodies.

02-02-48 K-35551/31411 - IRELAND




® DuPont registered trademark

Batch No.: see on the pack

Contents: 280 g e

PAGE 1 (COVER)

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Maximum number of treatments: 3 per crop

Latest time of application: Before crop meets in row

Method of application: Tractor mounted sprayer

READ ALL SAFETY INFORMATION BEFORE USE



DIRECTIONS FOR USE

RESTRICTIONS

- 'Safari Lite WSB' must not be applied to any crop suffering from stress as a result of drought, water-logging, low temperatures, pest or disease attack, nutrient or lime deficiency or other factors reducing crop growth.
- Due to the high level of activity of the herbicide, **special care must be taken to avoid damage by drift onto plants outside the target area, or onto surface waters or ditches. Thorough cleansing of equipment is also very important** - see below.
- **Following Crops** - After applying 'Safari Lite WSB' to a beet crop, following crops should not be planted or drilled until at least four months have elapsed since application, and ploughing and cultivation to a depth of at least 15 cm (6 inches) should be carried out. Only winter cereals should be sown in the same calendar year. Any crop may be sown or planted in the following spring after a beet crop treated with 'Safari Lite WSB'.
- **Crop Failure** - In the event of crop failure for any reason, sow only sugar beet within four months of application of 'Safari Lite WSB'. After four months from application refer to 'Following crops' section.
- **Soil Type** - See separate section
- Do not apply 'Safari Lite WSB' in sequence or tank-mix with a product containing any other sulfonylurea.

WEED CONTROL

'Safari Lite WSB' works by foliar action and root activity. It controls a wide range of broad-leaved weeds. It is most effective if applied when the weeds are small and actively growing. Good spray cover of weeds must be obtained. Susceptible plants cease growth almost immediately after application and symptoms can be seen about 5 to 10 days after application. It is important to identify the weeds occurring in the crop and refer to the weed table to ensure that the weeds present are those susceptible to 'Safari Lite WSB'. The susceptibility ratings of weeds in the following table refer to good spray cover and growing conditions, with weed size of up to 2 true leaves.

Weed Species	Safari Lite WSB + 1.0 L/ha desmedipham/ ethofumesate/ phenmedipham	Safari Lite WSB + 0.5 L/ha desmedipham/ ethofumesate/ phenmedipham
Black-bindweed	S	S
Charlock	S	S
Chickweed	S	S
Cleavers	S	S
Fat-hen	S	MS
Field Pansy	S	S
Fool's Parsley	S	S
Fumitory	S	S
Knotgrass	S	S
Mayweed, Scentless	S	S
Red Dead-nettle	S	S
Redshank	S	S
Small Nettle	S	S
Volunteer Oilseed Rape	S	S

S = Susceptible

MS = Moderately susceptible

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.

CROP

'Safari Lite WSB' can be used on all varieties of sugar and fodder beet at the growth stages given below. When 'Safari Lite WSB' is used in sequence with graminicides, the minimum time interval should be observed between applications in accordance with the manufacturer's recommendations.

TIMING

'Safari Lite WSB' mixtures can be applied from the early cotyledon stage of sugar and fodder beet as part of a planned programme. The first application should be made in the spring when the first weeds have emerged. Subsequent applications should be made every 5-14 days when new flushes of weeds are at or just past the cotyledon stage.

SOIL

'Safari Lite WSB' may be used on very light soils, light soils and medium loams. 'Safari Lite WSB' is not recommended for use on soils coarser than a loamy coarse sand or finer than a clay loam, or on stony and gravelly soils or soils with over 5% organic matter. Growers are advised to consult their advisor, who will assist in soil classification, before 'Safari Lite WSB' is used. Weed control may be reduced when soil conditions are very dry.

WEATHER

Avoid high light intensity (full sunlight) and high temperatures (above 21°C) on the day of spraying. Avoid periods of substantial day to night temperature changes or when frost is expected. Rain soon after application is essential to carry 'Safari Lite WSB' into the root zone of germinating weeds. The control of weeds may be poor if a dry period follows application.

DOSE

'Safari Lite WSB' should be applied at 280 g/ha (1 WSB/ha) in conjunction with a suitable herbicide tank mix partner (see compatibility).

VOLUME AND APPLICATION

BEFORE USING 'Safari Lite WSB', SPRAYING EQUIPMENT MUST BE CLEAN AND FREE FROM CONTAMINATION WITH OTHER PESTICIDES.

OVERALL APPLICATION

'Safari Lite WSB' should be applied overall in 80 - 150 litres of water per hectare, using suitable equipment to give a FINE spray, as defined by BCPC. Good, even spray cover of the weeds is essential for best results. Care should be taken not to overlap spray swaths.

BAND APPLICATION

Similar doses, water volumes and spray quality should be used as in overall application, but the area covered will be dependent upon the row spacing and bandwidth. Careful calibration is essential to achieve best results.

MIXING

'Safari Lite WSB' mixes easily with water, but the following mixing procedure should be followed: Quarter fill the spray tank with water and start the agitation. Tear open the foil envelope inside the cardboard box and add the water-soluble bag (WSB) directly to the spray tank and complete filling. Ensure it has fully dispersed before adding the tank-mix partner(s). Continue agitation while topping up the tank and while spraying. Use the tank the same day as mixing.

COMPATIBILITY

Always add 'Safari Lite WSB' the tank first and ensure it is fully dispersed before adding the partner product(s).

'Safari Lite WSB' should be tank-mixed with other herbicides (see WEED SUSCEPTIBILITY table). Products should only be tank-mixed if each product can be applied within the manufacturer's label recommendation for its use.

WARNING

EXTREME CARE SHOULD BE TAKEN TO AVOID DAMAGE BY DRIFT OF SPRAY ONTO PLANTS OUTSIDE THE TARGET AREA OR ONTO SURFACE WATERS OR DITCHES.

SPRAYING EQUIPMENT SHOULD NOT BE DRAINED OR FLUSHED ONTO LAND PLANTED WITH OR INTENDED FOR PLANTING WITH TREES OR CROPS OTHER THAN SUGAR BEET.

SPRAY TANK CLEAN-OUT

TO AVOID SUBSEQUENT DAMAGE TO CROPS OTHER THAN SUGAR BEET, IMMEDIATELY AFTER SPRAYING 'Safari Lite WSB' 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. Dispose of washings safely. Do not spray onto sensitive crop or land intended for cropping with sensitive crops.

NOTE:

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

Failure to thoroughly clean your sprayer after use can result in damage to sensitive crops sprayed later.

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.

TMALL CLEAR is a trademark of E. I. du Pont de Nemours and Company.

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

SAFARI® LITE

Version 5.0 (replaces: Version 4.0) Revision Date 26.02.2014
Ref. 130000010910

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 : SAFARI® LITE
Synonyms : B111990446
DPX-NA439 WSB

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 :

1.4. Emergency telephone number

Emergency telephone number : +353 (0) 1901 4670

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Carcinogenicity, Category 2	H351: Suspected of causing cancer.
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	R36/37/38: Irritating to eyes, respiratory system and skin. 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



Health hazard



Environment

Warning

H351 Suspected of causing cancer.
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.,

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P391 Collect spillage.
P501 Dispose of contents/ container to an approved waste disposal plant.

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 nor toxic (PBT).

This mixture contains no substance considered to be very persistent nor 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
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Lenacil (CAS-No.2164-08-1) (EC-No.218-499-0)

	N;R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	71.4 %
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Triflusalufuron-methyl (CAS-No.126535-15-7)

	N;R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	5.4 %
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Sodium diisopropylnaphthalenesulphonate (CAS-No.1322-93-6) (EC-No.215-343-3)

	Xn;R22 Xi;R36/37/38 Xn;R20	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	>= 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 physicians should contact the National Poisons Information Service: 01 809 2166 or 01 837 9964

Inhalation: Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician after significant exposure.

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: Remove contact lenses, if present and easy to do. Continue rinsing. 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. Avoid dust formation. Avoid breathing dust. Use personal protective equipment. Keep people away from and upwind of spill/leak. 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 Do not create a powder cloud by using a brush or compressed air. 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 of 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 container tightly closed in a dry 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.

Advice on common storage: Keep away from: Strong bases

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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Kieselguhr, Soda Ash Flux-Calcined (CAS-No. 68855-54-9)

TWA Respirable dust.	1.2 mg/m ³	2010	ELV (IE)	
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Talc (Mg₃H₂(SiO₃)₄) (asbestos-free) (CAS-No. 14807-96-6)

TWA Respirable dust.	0.8 mg/m ³	2010	ELV (IE)	
TWA Total inhalable dust.	10 mg/m ³	2010	ELV (IE)	

Sucrose (CAS-No. 57-50-1)

TWA	10 mg/m ³	2010	ELV (IE)	
STEL	20 mg/m ³	2010	ELV (IE)	

8.2. Exposure controls

Engineering measures: Ensure adequate ventilation, especially in confined areas. Provide for appropriate exhaust ventilation and dust collection at machinery. Contains no substances with occupational exposure limit values.

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. Gloves must be inspected prior to use. Before removing gloves clean them with soap and water. 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.

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).

Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required. Tractor / sprayer without hood: Backpack / knapsack sprayer: Full protective clothing Type 6 (EN 13034) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

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

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

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: 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: Backpack / knapsack sprayer: Half mask with a particle filter P1 (EN143).

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	: solid
Colour	: off-white, brown
Odour	: slight
Odour Threshold	: not determined
pH	: 7.7
Melting point/range	: Not available for this mixture.
Boiling point/boiling range	: not applicable
Flash point	: not applicable
Flammability (solid, gas)	: Does not sustain combustion.
Auto-ignition temperature	: no data available
Oxidizing properties	: The product is not oxidizing.
Explosive properties	: Not explosive

Lower explosion limit/ lower flammability limit	: no data available
Upper explosion limit/ upper flammability limit	: no data available
Vapour pressure	: Not available for this mixture.
Relative density	: Not available for this mixture.
Bulk density	: 482 kg/m ³ , packed
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: not applicable
Viscosity, kinematic	: not determined
Relative vapour density	: not applicable
Evaporation rate	: not applicable

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

10.5. Incompatible materials: Incompatible with bases.

10.6. Hazardous decomposition products: Sulphur oxides
Hydrogen fluoride

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

LD50 / rat : > 5,000 mg/kg

Method: OECD Test Guideline 401

The toxicological data has been taken from products of similar composition. Information source: Internal study report

Acute inhalation toxicity

- Lenacil

LC50 / 4 h rat : > 5.12 mg/l

- Triflusalufuron-methyl

LC50 / 4 h rat : > 5.1 mg/l

Acute dermal toxicity

LD50 / rabbit : > 2,000 mg/kg

Method: OECD Test Guideline 402

The toxicological data has been taken from products of similar composition. Information source: Internal study report

Skin irritation

rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

The toxicological data has been taken from products of similar composition. Information source: Internal study report

Eye irritation

rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

The toxicological data has been taken from products of similar composition. Information source: Internal study report

Sensitisation

guinea pig Skin sensitisation

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

Method: OECD Test Guideline 406

The toxicological data has been taken from products of similar composition. Information source: Internal study report

Repeated dose toxicity

• Lenacil

Oral rat

Exposure time: 90 d

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

• Triflusaluron-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, Liver effects, Abnormal decrease in number of red blood cells

Mutagenicity assessment

• Lenacil

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

- Triflusaluron-methyl

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity assessment

- Lenacil

Not classifiable as a human carcinogen.

- Triflusaluron-methyl

Limited evidence of carcinogenicity in animal studies

Toxicity to reproduction assessment

- Lenacil

No toxicity to reproduction

- Triflusaluron-methyl

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

- Lenacil
LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): > 2.0 mg/l
LC50 / 96 h / *Pimephales promelas* (fathead minnow): > 2.0 mg/l
LC50 / 96 h / *Cyprinus carpio* (Carp): > 3.1 mg/l
- Triflusaluron-methyl
LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): 730 mg/l

Toxicity to aquatic plants

- Lenacil
EbC50 / 72 h / *Pseudokirchneriella subcapitata* (green algae):
0.0077 mg/l
ErC50 / 72 h / *Pseudokirchneriella subcapitata* (green algae):
0.016 mg/l
EbC50 / 72 h / *Pseudokirchneriella subcapitata* (green algae):
0.012 mg/l
ErC50 / 7 d / *Lemna gibba* (duckweed): 0.029 mg/l
- Triflusaluron-methyl
EC50 / 72 h / *Pseudokirchneriella subcapitata*: 0.50 mg/l

Toxicity to aquatic invertebrates

- Lenacil
EC50 / 48 h / *Daphnia magna* (Water flea): > 8.4 mg/l
- Triflusaluron-methyl
EC50 / 48 h / *Daphnia magna* (Water flea): > 960 mg/l

Chronic toxicity to fish

- Lenacil
NOEC / 21 d / *Oncorhynchus mykiss* (rainbow trout): > 2.3 mg/l

- Triflurosulfuron-methyl
NOEC / 21 d / *Oncorhynchus mykiss* (rainbow trout): > 210 mg/l
Method: OECD Test Guideline 204

Chronic toxicity to aquatic Invertebrates

- Lenacil
NOEC / 21 d / *Daphnia magna* (Water flea): 0.48 mg/l
- Triflurosulfuron-methyl
NOEC / 21 d / *Daphnia magna* (Water flea): 11 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

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 nor toxic (PBT). / This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

Additional ecological information

No data is available on the product itself. 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. (Lenacil,
Triflurosulfuron 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) |

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IATA_C

- 14.1. UN number: 3077
14.2. UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Lenacil, Triflusaluron 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. (Lenacil, Triflusaluron 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 Directive 99/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Take note of Directive 92/85/EEC on the safety and health at work of pregnant workers. 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 substance. 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

R20	Harmful by inhalation.
R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
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.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

H332	Harmful if inhaled.
H335	May cause respiratory 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 observable 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
vPvB	Very Persistent and very Bioaccumulative

Further information

Take notice of the directions of use on the label.

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Before use read DuPont's safety information.

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