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This SDS adheres to the standards and regulatory requirements of Great Britain 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® 50DF Synonyms : B10181778 DPX-KE459

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 : Headland Agrochemicals Limited

Rectors Lane, Pentre, Deeside, Flintshire CH5 2DH

United Kingdom

E-mail address : SDS.Ronland@fmc.com

1.4. Emergency telephone number

 Medical emergencies:
 Netherlands: +31 30 274 88 88

 Austria: +43 1 406 43 43
 Norway: +47 22 591300

 Belgium: +32 70 245 245
 Poland: +48 22 619 66 54

Bulgaria: +359 2 9154 409 +48 22 619 08 97

Cyprus: 1401 Portugal: 808 250 143 (in Portugal only)

Czech Republic: +420 224 919 293 +351 21 330 3284

 +420 224 915 402
 Romania: +40 21318 3606

 Denmark: +45 82 12 12 12
 Slovakia: +421 2 54 77 4 166

 France: +33 (0) 1 45 42 59 59
 Slovenia: +386 41 650 500

 Finland: +358 9 471 977
 Spain: +34 91 562 04 20

 Greece: 30 210 77 93 777
 Sweden: +46 08-331231

Hungary: +36 80 20 11 99 112

Ireland (Republic): +352 1 809 2166 Switzerland: 145

 Italy: +39 02 6610 1029
 United Kingdom: 0870 600 6266 (in the UK only)

 Lithuania: +370 523 62052
 U.S.A. & Canada: +1 800 / 331-3148 (ProPharma)

 +370 687 53378
 All other countries: +1 651 / 632-6793 (ProPharma 

Luxembourg: +352 8002 5500 Collect)

For fire, leak, spill or other accident emergencies:

U.S.A.: +1 800 / 424 9300 (CHEMTREC)

All other countries: +1 703 / 527 3887 (CHEMTREC - Collect)

### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Dangerous for the R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects

environment in the aquatic environment.

#### 2.2. Label elements



Dangerous for the environment

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R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Special labelling of certain

substances and mixtures

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

use.

S 2 Keep out of the reach of children.

S13 Keep away from food, drink and animal feedingstuffs.

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

S46 If swallowed, seek medical advice immediately and show this container or

label.

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

Use appropriate container to avoid environmental contamination.

#### 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 Directive 67/548/EEC	Classification according Regulation 1272/2008 (CLP)	Concentration

Flupyrsulfuron-methyl-sodium (CAS-No.144740-54-5)

N	I;R50/53	Aquatic Acute 1; H400	50 %
		Aquatic Chronic 1; H410	

Polyethylene oxide, mono[(1,1,3,3-tetramethylbutyl)phenyl] ether (CAS-No.9036-19-5)

Xn;R22	Eye Dam. 1; H318	>= 1 - < 5 %
Xi;R41	Acute Tox. 4; H302	
N;R50/53	Aquatic Acute 1; H400	
	Aquatic Chronic 1; H410	

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, (24-hr),

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Tel: 0870-600-6266.

Inhalation : Move to fresh air. Consult a physician after significant exposure. Artificial

respiration and/or oxygen may be necessary.

Skin contact : Take off contaminated clothing and shoes immediately. Wash off immediately

with soap and plenty of water. In the case of skin irritation or allergic reactions

see a physician. Wash contaminated clothing before re-use.

Eye contact : If easy to do, remove contact lens, if worn. Hold eye open and rinse slowly and

gently with water for 15-20 minutes. If eye irritation persists, consult a

specialist.

Ingestion : Obtain medical attention. DO NOT induce vomiting unless directed to do so by

a physician or poison control center. If victim is conscious: Rinse mouth with

water.

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

Symptoms : No cases of human intoxication are known and the symptoms of experimental

intoxication are not known.

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

Treatment : Treat symptomatically.

**SECTION 5: Firefighting measures** 

5.1. Extinguishing media

Suitable extinguishing media : Water spray, 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 (NOx)

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.

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#### 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. 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).

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 : 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.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition. Avoid dust formation in confined

d explosion areas. During processing, dust may form explosive mixture in air.

## 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage : Store in a place accessible by authorized persons only. Store in original

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areas and containers containers. 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

Туре	Control	Update	Basis	Remarks
Form of exposure	parameters			

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

TWA	10	mg/m3	2007	EH40 WEL	
STEL	20	mg/m3	2007	EH40 WEL	

## 8.2. Exposure controls

Engineering measures : Ensure adequate ventilation, especially in confined areas. Provide for

appropriate exhaust ventilation and dust collection at machinery. Use sufficient

ventilation to keep employee exposure below recommended limits.

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

Hand protection : Material: Nitrile rubber

Glove thickness: 0.3 mm

Glove length: Standard glove type.

Protection index: Class 3 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. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Gauntlets shorter than 35 cm long shall be worn under the combination sleeve. Before removing gloves clean them

with soap and water.

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

2) Mixer and loaders must wear: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Rubber apron Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required. Tractor / sprayer without hood: Backpack / knapsack sprayer: Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Low

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application (horticulture, field crops): Middle-height application (vegetables, viticulture): Full protective clothing Type 4 (EN 14605) Mechanical automatized spray application in closed tunnel: No personal body protection normally required. To optimize the ergonomy it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier.

Garment materials that are resistant to both water vapour and air will maximise wearing comfort. Materials should be robust to maintain the integrity and barrier in use.

The permeation resistance of the fabric must be verified independently of the « type » protection recommended, to ensure an appropriate performance level of the material adequate to the corresponding agent and type of exposure. 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).

Protective measures

All Personal Protection Equipment should be checked before use to confirm it is compatible with the chemicals you are handling.

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. 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. For environmental protection remove and wash all contaminated protective equipment before reuse. 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: Backpack / knapsack sprayer: Low application (horticulture, field crops): Middle-height application (vegetables, viticulture): Half mask with a particle filter P1 (EN 143). 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

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Form : solid

Colour : white, tan

Odour : none

pH : 7 - 9 at 10 g/l ( 20 °C), Method: CIPAC MT 75

Melting point : no data available

Flash point : not applicable

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

Thermal decomposition : Not available for this mixture.

Auto-ignition temperature : Not available for this mixture.

Lower explosion limit/ lower

flammability limit

: Not available for this mixture.

Upper explosion limit/ upper

flammability limit

: Not available for this mixture.

Vapour pressure : Not available for this mixture.

Relative density : Not available for this mixture.

Bulk density : 720 - 820 kg/m3

Water solubility : dispersible

Partition coefficient: n-

octanol/water

: not applicable

Viscosity, dynamic : no data available

Relative vapor density : Not available for this mixture.

Evaporation rate

9.2. Other information

: Not available for this mixture.

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.

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**10.4. Conditions to avoid** : no data available

**10.5. Incompatible materials** : No materials to be especially mentioned.

**10.6. Hazardous** : Hydrogen fluoride decomposition products : Carbon oxides

nitrogen oxides (NOx)

#### **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute oral toxicity

LD50 / rat : > 5,000 mg/kg (Data on the product itself)

Acute inhalation toxicity

 Flupyrsulfuron-methyl-sodium LC50 / 4 h rat : > 5.8 mg/l

Acute dermal toxicity

LD50 / rabbit : > 2,000 mg/kg Method: OECD Test Guideline 402

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

Skin irritation

rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

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

Eye irritation

rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

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

Sensitisation

guinea pig Modified Buehler Test

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

Method: OECD Test Guideline 406

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

Repeated dose toxicity

Flupyrsulfuron-methyl-sodium

Oral rat

Exposure time: 90 d NOAEL: 2,000 mg/kg

Organ weight changes, Liver effects, Reduced body weight gain



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## Mutagenicity assessment

Flupyrsulfuron-methyl-sodium
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Did not show mutagenic effects in animal experiments.

## Carcinogenicity assessment

Flupyrsulfuron-methyl-sodium
 An increased incidence of tumours was observed in laboratory animals.

## Toxicity to reproduction assessment

Flupyrsulfuron-methyl-sodium
 Animal testing did not show any effects on fertility.

## Assessment teratogenicity

Flupyrsulfuron-methyl-sodium
 Did not show teratogenic effects in animal experiments.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

## Toxicity to fish

Flupyrsulfuron-methyl-sodium
 LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): 470 mg/l

## Toxicity to aquatic plants

EbC50 / 120 h / Pseudokirchneriella subcapitata (green algae): 0.021 mg/l (Data on the product itself)

#### Toxicity to aquatic invertebrates

Flupyrsulfuron-methyl-sodium
 EC50 / 48 h / Daphnia magna (Water flea): 721 mg/l

## Chronic toxicity to fish

Flupyrsulfuron-methyl-sodium
 Early Life-Stage / NOEC / 90 d / Oncorhynchus mykiss (rainbow trout): 57 mg/l

## Chronic toxicity to aquatic Invertebrates

Flupyrsulfuron-methyl-sodium
 NOEC / 21 d / Daphnia magna (Water flea): 16 mg/l

## 12.2. Persistence and degradability

#### Biodegradability

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Not readily biodegradable. Estimation based on data obtained on active ingredient.

## 12.3. Bioaccumulative potential

Bioaccumulation

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

## 12.4. Mobility in soil

Mobility in soil

The product is not expected to be mobile in soils.

#### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating 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 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. (flupyrsulfuron-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)

FMC internal recommendations and transport guidance: ICAO / IATA cargo aircraft only

IATA\_C

14.1. UN number: 3077

14.2. UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. (flupyrsulfuron-

methyl-sodium)



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14.3. Transport hazard class(es): 9 14.4. Packing group: Ш

14.5. Environmental hazards: For further information see Section 12.

14.6. Special precautions for user:

FMC internal recommendations and transport guidance: ICAO / IATA cargo aircraft only

**IMDG** 

14.1. UN number: 3077

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, 14.2. UN proper shipping name:

N.O.S. (flupyrsulfuron-methyl-sodium)

14.3. Transport hazard class(es): 14.4. Packing group: Ш

14.5. Environmental hazards: Marine Pollutant

14.6. Special precautions for user:

FMC internal recommendations and transport guidance: ICAO / IATA cargo aircraft only

## 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 mixture is classified as dangerous in accordance with Directive

> 1999/45/EC. Take note of Dir 94/33/EC on the protection of young people at work. 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 Dir 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/these products

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

Refer to the label for exposure assessment information.

## **SECTION 16: Other information**

## Text of R-phrases mentioned in Section 3

R22 Harmful if swallowed.

R41 Risk of serious damage to eyes.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

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

H302 Harmful if swallowed.

H318 Causes serious eve damage. H400 Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects. H410

Other information professional use

#### **Further information**



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Take notice of the directions of use on the label.

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.