

MATERIAL SAFETY DATA SHEET

Product**SPOTLIGHT PLUS**

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Product code : 6246-NPF

Version : 2.01

Date : 01/03/2006

Supersedes : 16/06/2005

01 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

PRODUCT NAME : SPOTLIGHT PLUS
Name : FMC CHEMICAL
Address : Boulevard de la Plaine, 9/3
1050 BRUXELLES
BELGIQUE
Telephone number : 00 32 2 6459584
Telefax number : 00 32 2 6459655
EMERGENCY TELEPHONE
NUMBER : (*) 00 32 14 58 45 45 (*)
Recommended use : Herbicide

02 COMPOSITION / INFORMATION ON INGREDIENTS

PREPARATION :
Chemical nature : Herbicide based on Carfentrazone-ethyl
Components contributing to the hazard : (*)
Carfentrazone-ethyl (CAS : 128639-02-1, classification : N; R50-53) : < 10 % (*)
Polyether modified trisiloxane (CAS : 134180-76-0, EC auto-class. : Xn; R20/21 - Xi; R38-41 - N; R51-53) : < 5 % (*)
Benzenesulfonic acid, mono-C10-13-alkyl derivs., calcium salts (CAS : 90194-36-8, Einecs : 290-646-1, EC auto-class. : C; R34) : < 5 % (*)
1-Butanol (CAS : 71-36-3, Einecs : 200-751-6, EC classification : R10 - Xn; R22 - Xi; R37/38-41 - R67) : < 5 % (*)
Solvent naphtha (petroleum), light arom. (CAS : 64742-95-6, Einecs : 265-199-0, EC classification : R10 - Xi; R37 - Xn; R65 - R66 - R67 - N; R51-53) : < 5 % (*)

03 HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS :
Adverse human health effects : Irritating to skin
May cause sensitization by skin contact
Environmental effects : Very toxic to aquatic organisms
May cause long-term adverse effects in the aquatic environment
Physical and chemical hazards :
- Fire or explosion : Combustible. May support combustion if heated above the product's flash point (59 °C)
Burning and thermal decomposition may form toxic by-products
Classification of the product : According to EC criteria, this product is classified as :
- IRRITANT
- SENSITIZING
- DANGEROUS FOR THE ENVIRONMENT

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04 FIRST AID MEASURES

Inhalation :	Move the affected person to the fresh air If the person feels unwell : Call a doctor
Skin contact :	Remove all contaminated clothing and footwear Wash with soap and water In case of redness or irritation, call a doctor
Eye contact :	Rinse immediately with plenty of water (for at least 15 minutes). If irritation persists, consult an eye specialist
Ingestion :	Rinse mouth out with water Never attempt to induce vomiting Call a doctor immediately

05 FIRE-FIGHTING MEASURES

Suitable extinguishing media :	Carbon dioxide (CO ₂) Foam Powders
Not suitable extinguishing media :	Water (the product is hazardous for the environment - do not dilute it)
Specific fire fighting methods :	Isolate fire area. Evacuate downwind Contain the extinguishing fluids by bunding (the product is hazardous for the environment) Do not attempt to fight the fire without suitable protective equipment Do not breathe fumes
Protection of fire-fighters :	Self-contained breathing apparatus Complete protective clothing

06 ACCIDENTAL RELEASE MEASURES

Personal precautions :	Avoid contact with skin and eyes Do not attempt to intervene without a suitable protective equipment
Environmental precautions :	Do not allow product to spread into the environment Contain the spilled material by bunding (product is hazardous for the environment)
Methods for cleaning up :	
- Neutralization :	Absorb spillage with: - inert absorbent material. - earth or sand Neutralize non-recoverable product with : - a solution of caustic or soda ash, and an appropriate alcohol (methanol, ethanol or isopropanol)
- Cleaning/decontamination :	Wash with plenty of water and detergent.
- Disposal :	Dispose of contaminated material at an authorized site

07 HANDLING AND STORAGE**HANDLING**

Technical measures :	Does not require any specific or particular technical measures
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STORAGE

Storage conditions :

- Recommended :

Store :

- in a cool, dry area
- in a well-ventilated area
- away from any source of ignition
- out of reach of children.
- away from food and drinks and animal foodstuffs

Packaging materials :

- Recommended :

Original packaging

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment :

- Respiratory protection :

In the event of insufficient ventilation:

Filtering respiratory protective device with a specific pesticide canister.

- Hand protection :

Nitrile protective gloves.

Neoprene protective gloves.

- Eye protection :

Goggles

- Skin and body protection :

Handling product in large quantities :

Impermeable suit (Hypalon, Tyvek, Saranex, PVC...)

Hygiene measures :

Always wash your hands after handling the product

Always take a shower after work.

Separate working clothes from town clothes. Launder separately

09 PHYSICAL AND CHEMICAL PROPERTIES

Physical state :

Liquid

Colour :

yellow orange

translucent

pH :

4.86 (Aqueous dispersion - 1 %)

Flammability characteristics :

- Flash point :

59 °C

- Auto-ignition temperature :

356 °C

Specific gravity :

0.9308 g/cm³ at 20 °C

Solubility :

- in water :

A dispersion is formed

Kinematic viscosity :

20.42 mm²/s at 40 °C**10 STABILITY AND REACTIVITY**

Stability :

Stable at ambient temperature and under normal conditions of use

Hazardous reactions :

- Materials to avoid :

- strong oxidizing agents

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- Hazardous decomposition products :

On combustion or on thermal decomposition (following the evaporation of water) releases :
Carbon oxides (CO, CO₂)
Aldehydes, ketones
Hydrogen fluoride, Hydrogen chloride
Nitrogen oxides

11 TOXICOLOGICAL INFORMATION

Product as it is :

Acute toxicity :

LC 50 inhalation/4h/rat: >6.92 mg/l
LD 50 skin (Rat) : > 2000 mg/kg
LD 50 oral (Rat) : > 2000 mg/kg

Local effects :

Tests on the formulation :
Irritating to skin

Sensitization :

Tests on the formulation :
May cause sensitization by skin contact

12 ECOLOGICAL INFORMATION

Persistence:

Carfentrazone-ethyl :
Half-life (in soil) : < 1.5 d
Half-life (in water) : 8.3 d (pH = 5)

BIOACCUMULATION:

Octanol/water partition coefficient :

Carfentrazone-ethyl :
3.36

Bioconcentration factor.

Carfentrazone-ethyl :
BCF = 159

ECOTOXICITY :

Effects on the aquatic environment :

Product as is :
EC 50 (Algae) : 0.45 mg/l
Very toxic to aquatic organisms
May cause long-term adverse effects to the aquatic environment.
Carfentrazone-ethyl :
LC50 (Rainbow trout / 96 h) : 1.6 mg/l
EC 50 (Crustacean): > 9.8 mg/l
Polyether modified trisiloxane :
EC 50 (Daphnia) : 1.1 mg/l
LC 50 (Fish) : 2.1 mg/l
EC 50 (Algae) : 28.2 mg/l

Effects on terrestrial animals:
Carfentrazone-ethyl :
LD50(birds) : > 2250 mg/kg

13 DISPOSAL CONSIDERATIONS

WASTE FROM PRODUCT :

Prohibition :

Discharging waste into rivers and drains is prohibited

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Destruction/Disposal :

Dispose of in accordance with relevant local regulations
Incinerate at a licensed installation**CONTAMINATED PACKAGING :**

Decontamination/cleaning :

Clean with water.

Destruction/disposal :

Recycle following cleaning.

14 TRANSPORT INFORMATION**INTERNATIONAL REGULATIONS :**

Land transportation :

- Rail/road (RID/ADR) :

UN number : 3082 Environmentally hazardous substance, liquid, N.O.S.
(Carfentrazone-ethyl, Polyether modified trisiloxane)
Class : 9
Classification code : M6
Hazard identification number : 90
Labelling : 9
Packaging group : III

Sea (IMO/IMDG) :

UN number : 3082 Environmentally hazardous substance, liquid, N.O.S.
(Carfentrazone-ethyl, Polyether modified trisiloxane)
Class : 9
Labelling : 9
Packaging group : III

Air (ICAO-IATA) :

UN number : 3082 Environmentally hazardous substance, liquid, N.O.S.
(Carfentrazone-ethyl, Polyether modified trisiloxane)
Class : 9
Labelling : 9
Packing group : III**15 REGULATORY INFORMATION****EC LABELLING :**- Identification of the hazardous
product:Contains :
Active ingredient(s) :
Carfentrazone-ethyl : 60 g/l

- Symbols and indications of danger:

- IRRITANT (Xi)
- DANGEROUS FOR THE ENVIRONMENT (N)

- R phrases :

R 38: Irritating to skin.
R 43: May cause sensitization by skin contact.
R 50/53: Very toxic to aquatic organisms, may cause long-term adverse
effects in the aquatic environment.

- S phrases :

S 2 : Keep out of the reach of children
S 24 : Avoid contact with skin
S 37: Wear suitable gloves.
S 46: If swallowed seek medical advice immediately and show this container
or label
S 57 : Use appropriate container to avoid environmental contamination.

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- Additional phrases :

Prescribed phrase on label :

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

Sensitizing product. Sensitizing components have not been identified.

NOTE :

The above information refers to the main regulations specifically applicable to the product described in the MSDS.

The cited basic community texts are being updated and transcribed in national law.

Refer to all applicable international, national and local regulations or provisions.

The user's attention is drawn to the possible existence of additional provisions which complete these regulations.

16 OTHER INFORMATION

Registered trademarks :

Spotlight and FMC are registered trademarks of FMC Corporation, USA.

* Update :

This sheet was updated (refer to the date at the top of this page)

Subheadings and text which have been modified since the previous version are followed with an asterisk (*)

This sheet completes the technical sheets but it does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith.

The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended.

This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

The mandatory regulations mentioned are only intended to help the user to fulfil his obligations regarding the use of hazardous products.

This listing must not be considered exhaustive. It does not exonerate the user from ensuring that other legal obligations than those mentioned do not exist, relating to the use and storage of the product for which he solely is responsible.

End of document.

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