



MATERIAL SAFETY DATA SHEET

SPOTLIGHT PLUS

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Version : 2

Date : 19/5/2009

Supersedes : 3/10/2007

Product code :6246-NPF-UK

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : SPOTLIGHT PLUS
Recommended uses : Herbicide
Name : FMC CHEMICAL Sprl
Address : Boulevard de la Plaine, 9/3
1050 BRUXELLES
BELGIQUE
Telephone number : 00 32 2 6459584
Telefax number : 00 32 2 6459655
E-mail : msdsinfo@fmc.com
EMERGENCY TELEPHONE NUMBER (Europe) : 00 32 14 58 45 45

2. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS :
Adverse human health effects : 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 :
- SENSITISING
- DANGEROUS FOR THE ENVIRONMENT

3. COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURE :
Chemical nature : Herbicide based on carfentrazone-ethyl

Hazardous constituents :

Substance name	Contents	CAS No / EC No / Index No	Symbol(s)	R-Phrase(s)
<u>Carfentrazone-ethyl (ISO)</u>	: < 10 %	128639-02-1 / ----- / 607-309-00-5	N	50/53
<u>Polyether modified trisiloxane</u>	: < 5 %	134180-76-0 / ----- / -----	Xn N	20/21-38-41-51/53
<u>Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts</u>	: < 5 %	68953-96-8 / 273-234-6 / -----	Xi	38-41
<u>Butanol</u>	: < 5 %	71-36-3 / 200-751-6 / 603-004-00-6	Xn	10-22-37/38-41-67
<u>Solvent naphtha (petroleum), light arom.</u>	: < 5 %	64742-95-6 / 265-199-0 / 649-356-00-4	N Xn	10-37-51/53-65-66-67

4. 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

FMC CHEMICAL Sprl

Boulevard de la Plaine, 9/3 1050 BRUXELLES BELGIQUE



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4. FIRST AID MEASURES

(continued)

Eye contact :	In case of redness or irritation, call a doctor 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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media :	Carbon dioxide (CO2) Foam Powders
Not suitable extinguishing media :	Water (the product is dangerous 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

6. 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.

7. HANDLING AND STORAGE

HANDLING	
Technical measures :	Does not require any specific or particular technical measures
STORAGE	
Storage conditions :	
- Recommended :	Store : - in a cool and 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



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures :	Ensure good ventilation of the work station
Personal protective equipment :	
- Respiratory protection :	In the event of insufficient ventilation : Filtering respiratory protective device with a pesticide canister
- Hand protection :	Nitrile-rubber protective gloves Neoprene rubber gloves
- Eye protection :	Safety spectacles with side shields
- 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 and launder separately

9. 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/cm ³ (20 °C)
Solubility :	
- in water :	A dispersion is formed
Kinematic viscosity :	20.42 mm ² /s (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
- Hazardous decomposition products :	On combustion or on thermal decomposition (following the evaporation of water) releases : Carbon oxides (CO, CO ₂) Aldehydes Ketones Hydrogen fluoride Hydrochloric acid 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 : May produce skin irritation
Sensitization :	Tests on the formulation : May cause sensitization on contact with skin



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12. ECOLOGICAL INFORMATION

DEGRADABILITY :

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 in the aquatic environment
Carfentrazone-ethyl :
LC 50 (Fish : rainbow trout) / 96h : 1.6 mg/l
EC 50 (Daphnia) / 48h : > 9.8 mg/l
EC 50 (Algae) / 72 h : 12 µg/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
Destruction/Disposal : Dispose of in accordance with relevant local regulations
Incinerate at a licensed installation

CONTAMINATED PACKAGING :

Destruction/disposal : Dispose of at an approved site
Incinerate at a licensed installation

14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS :

- UN No. 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Carfentrazone-ethyl & Polyether modified trisiloxane)

Land transportation :

- Rail/road (RID/ADR) : Class : 9
Classification code : M6
Packing group : III
Hazard identification number : 90
Labelling : 9

Sea (IMO/IMDG) :

Class : 9
Packing group : III
Labelling : 9
Marine pollutant : YES

Air (ICAO-IATA) :

Class : 9
Packing group : III
Labelling : Miscellaneous

SPOTLIGHT PLUS
15. REGULATORY INFORMATION

EC LABELLING :

 Identification of the hazardous product : Active ingredient(s) :
 Carfentrazone-ethyl : 60 g/l

- Symbols and indications of danger :



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

- R phrases : R43 : May cause sensitization by skin contact.
 R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S phrases : S24 : Avoid contact with skin.
 S35 : This material and its container must be disposed of in a safe way.
 S37 : Wear suitable gloves.
 S57 : Use appropriate container to avoid environmental contamination.
- Additional phrases : The following must appear on the label :
 To avoid risks to man and the environment, comply with the instructions for use Sensitizing product. Sensitizing components have not been identified.

The regulatory information given above only indicate the principal 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

- * R phrases text of § 3 :
- R10 : Flammable.
 - R20/21 : Harmful by inhalation and in contact with skin.
 - R22 : Harmful if swallowed.
 - R37 : Irritating to respiratory system.
 - R37/38 : Irritating to respiratory system and skin.
 - R38 : Irritating to skin.
 - R41 : Risk of serious damage to eyes.
 - R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R65 : Harmful : may cause lung damage if swallowed.
 - R66 : Repeated exposure may cause skin dryness or cracking.
 - R67 : Vapours may cause drowsiness and dizziness.
- * * Update : This sheet was updated (refer to the date at the top of this page)
 Texts which have been modified since the previous version are marked with an asterisk (*)
- Registered trademarks : Spotlight and FMC are registered trademarks of FMC Corporation, USA.

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

Besides, the attention of the user is drawn to the possible risk incurred by using the product for any other use than that for which it was intended.

In no way does this exempt the user from knowing and applying all the regulations controlling his activity. He alone will take on the responsibility for taking the precautions involved by the use of the product.

The aim of all the mandatory regulations mentioned is just to help the user to fulfil his obligations regarding the use of hazardous products.



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This information must not be considered exhaustive. It does not exempt the user from ensuring that other obligations than those mentioned could apply, related to the storage and use of the product, this being his sole responsibility.

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