

Page: 1 Version: 3

Date: 28/6/2010

Supersedes: 17/3/2010

Product code:6270

CIRRUS CS

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

CIRRUS CS

Recommended uses:

Herbicide

Name:

FMC CHEMICAL Spri

Address:

Boulevard de la Plaine, 9/3

1050 BRUXELLES

BELGIQUE

Telephone number :

00 32 2 6459584

Telefax number :

00 32 2 6459655

msdsinfo@fmc.com

EMERGENCY TELEPHONE NUMBER

(Europe):

00 32 14 58 45 45

2. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS:

Adverse human health effects:

To our knowledge, no specific risk when handled in accordance with good

occupational hygiene and safety practice.

Environmental effects:

May cause long-term adverse effects in the aquatic environment.

Physical and chemical hazards:

- Fire or explosion :

Slightly combustible. May support combustion at elevated temperatures

Burning and thermal decomposition may form toxic by-products

3. COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURE:

Chemical nature:

Herbicide based on clomazone

Hazardous constituents:

Substance name		Contents	CAS No / EC No / Index No	Symbol(s)	R-Phrase(s)
Clomazone	:	< 35 %	81777-89-1 / /	Xn N	20/22-50/53
Sodium nitrate	:	5 %	7631-99-4 / 231-554-3 /	O Xn	08-22-36/37/38
Calcium chloride	:	5 %	10043-52-4 / 233-140-8 / 017-013-00-2	Xi	36

4. FIRST AID MEASURES

Inhalation:

Move the affected person to the fresh air

In the event of coughing and slight breathlessness:

Call a doctor

Skin contact:

Remove all contaminated clothing and footwear

Wash with soap and water

Eye contact:

Rinse with plenty of water immediately

If irritation persists, consult an eye specialist

Ingestion:

Rinse mouth out with water

If the person is fully conscious, make him/her drink water. Never give an

unconscious person anything to drink

Consult a doctor



Page: 2 Version: 3

Date: 28/6/2010

Supersedes: 17/3/2010

Product code:6270

CIRRUS CS

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Foam

Carbon dioxide (CO2)

Powders

Specific hazards:

Toxic fumes are released

Specific fire fighting methods:

Isolate fire area. Evacuate downwind

Do not dispose of fire-fighting water in 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 breathe vapours

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 20 % solution of potassium hydroxide in methanol

Cover the treated area with plastic and let stand for 24 h. Remove the covering and

place in a drum for a later disposal

- Cleaning/decontamination :

Wash with plenty of water and detergent

- Disposal:

Dispose of contaminated materials in accordance with current regulations

7. HANDLING AND STORAGE

HANDLING

Technical measures:

Vapour extraction at source

Precautions:

Avoid any direct contact with the product

Work in a well-ventilated area

STORAGE

Storage conditions:

- Recommended:

- in a cool and dry area - in a well-ventilated area - protected from frost.

- away from food and drinks and animal foodstuffs

- out of reach of children

Packaging materials:

- Recommended :

Original packaging

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:

Ensure good ventilation of the work station Extraction to remove vapours at their source

Personal protective equipment:

- Respiratory protection :

If the ventilation is suitable, it is not essential to wear respiratory equipment

- Hand protection :

Neoprene protective gloves

Boulevard de la Plaine, 9/3 1050 BRUXELLES BELGIQUE

FMC CHEMICAL Spri



Page: 3
Version: 3

Date: 28/6/2010

Supersedes: 17/3/2010

Product code:6270

CIRRUS CS

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

(continued)

Nitrile-rubber protective gloves

- Eye protection :

Safety goggles
Impermeable clothing

Skin and body protection :
 Hygiene measures :

Always wash your hands after handling the product

Do not eat, drink or smoke during use

Separate working clothes from town clothes and launder separately

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Homogeneous liquid

Colour:

light beige

Odour:

slight aromatic

pH:

8.87 (Aqueous dispersion - 1 %)

Flammability characteristics:

- Flash point :

> 79 °C

- Auto-ignition temperature :

382 °C

Specific gravity:

1.1712 g/cm3 (20 °C)

Solubility:

- in water :

Dispersible

Dynamic viscosity:

115 - 746 mPa.s (20 °C) 82 - 553 mPa.s (40 °C)

Surface tension: 46.7 mN/m (25 °C)

44.2 mN/m (40 °C)

10. STABILITY AND REACTIVITY

Stability:

Stable at ambient temperature and under normal conditions of use

Hazardous reactions:

- Hazardous decomposition products:

On thermal decomposition (pyrolysis), releases :

Carbon oxides (CO, CO2)

Nitrogen oxides

Hydrochloric acid, Chlorine

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

LC 50 inhalation / 4h (rat) : > 5.21 mg/l

(maximum attainable concentration - zero mortality)

LD 50 skin (Rat) : > 5000 mg/kg LD 50 oral (rat) : > 5000 mg/kg

Local effects:

Not irritating to rabbits on cutaneous application.

Not irritating to rabbits on ocular application.

Sensitization:

Does not cause sensitisation

12. ECOLOGICAL INFORMATION

DEGRADABILITY:

Persistence:

Ciomazone:

Half-life (in water): 1.5 - 7 d

Half-life (in soil): 24 - 84 d

BIOACCUMULATION:

FMC CHEMICAL Spri

Boulevard de la Plaine, 9/3 1050 BRUXELLES BELGIQUE



Page : 4 Version : 3 Date : 28/6/2010

Supersedes : 17/3/2010

Product code :6270

CIRRUS CS

12. ECOLOGICAL INFORMATION

(continued)

Octanol/water partition coefficient:

Clomazone: 2.5

Bioconcentration factor:

Clomazone: BCF: 27 - 40

ECOTOXICITY:

Effects on the aquatic environment:

Product as is:

May cause long-term adverse effects in the aquatic environment.

LC 50 (Fish: rainbow trout) / 96h: 592.7 mg/l

EC 50 (Daphnia) / 48h : 491.3 mg/l EC 50 (Algae) / 96 h : 160.85 mg/l

Effects on terrestrial animals.

Clomazone:

LD50(birds): > 2510 mg/kg

13. DISPOSAL CONSIDERATIONS

WASTE FROM PRODUCT:

Destruction/Disposal:

Dispose of in accordance with relevant local regulations

Incinerate at a licensed installation

CONTAMINATED PACKAGING:

Decontamination/cleaning:

Clean with water

Destruction/disposal:

Reuse or recycle following washing

NOTE:

The user's attention is drawn to the possible existence of specific European,

national or local regulations regarding disposal

14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS:

- UN No.

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (

Clomazone)

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 : 9

15. REGULATORY INFORMATION

EC LABELLING:

Identification of the hazardous product :

Contains :

Active ingredient(s): Clomazone: 360 g/l

- R phrases :

R53: May cause long-term adverse effects in the aquatic environment.

S phrases : S13 : Keep away from food, drink and animal feedingstuffs.
 S2 : Keep out of the reach of children.

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

S61: Avoid release to the environment. Refer to special instructions/Safety data

sheets.

- Additional phrases :

The following must appear on the label:

FMC CHEMICAL Spri

Boulevard de la Plaine, 9/3 1050 BRUXELLES BELGIQUE



Version: 3

Date: 28/6/2010

Page: 5

Supersedes: 17/3/2010

Product code:6270

CIRRUS CS

15. REGULATORY INFORMATION

(continued)

To avoid risks to man and the environment, comply with the instructions for use Safety data sheet available for professional user on request

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:

R8: Contact with combustible material may cause fire.

R20/22: Harmful by inhalation and if swallowed.

R22: Harmful if swallowed. R36: Irritating to eyes.

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.

* 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:

Cirrus 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

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.

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.

End of document