

MATERIAL SAFETY DATA SHEET

Product**AURORA 50 WG**

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Product code : 6197

Version : 2

Date : 02/12/2003

Supersedes : 14/05/2002

01 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : AURORA 50 WG
Name : FMC CHEMICAL
Address : Boulevard de la Plaine, 9/3
1050 BRUXELLES
BELGIQUE
Telephone number : 32(0)2 6459584
Telefax number : 32(0)2 6459655
EMERGENCY TELEPHONE
NUMBER : 001 800 12 13 14 15
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, EC classification : N; R50-53) :
50 %

03 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 to 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
Classification of the product : (*)
According to EC criteria, this product is classified as : (*)
- SENSITIZING (*)
- DANGEROUS FOR THE ENVIRONMENT. (*)

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
Eye contact : Rinse immediately with plenty of water (for at least 15 minutes).
Always refer to an eye specialist, even if there are no immediate symptoms.
Ingestion : If the person is fully conscious, make him/her drink water. Never give an
unconscious person anything to drink
Consult a doctor

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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 :	Do not attempt to intervene without a suitable protective equipment Avoid contact with skin and eyes
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 :	
- Recovery :	Avoid creating or spreading dust Spray with water. Recover the product with absorbent material
- Neutralization :	Absorb spillage with: - 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 : Dust extraction (suction)

STORAGE

Storage conditions :

- Recommended :
- Store :
- the container tightly closed and dry
 - in a cool, 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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08 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures :	Ensure good ventilation of the work station Extraction to remove dust at its source
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 :	If the dust is spread : Safety spectacles with side shields
- Skin and body protection :	Handling product in large quantities : Impermeable suit (Hypalon, Tyvek, Saranex, PVC...). Safety foot-wear.
Hygiene measures :	Always wash your hands after handling the product Always take a shower after work.

09 PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	Granules
Colour :	grey to beige
Odour :	weak.
pH :	5.85 (Aqueous dispersion - 5 %)
Specific gravity :	0.497 g/cm ³
Solubility :	
- in water :	Dispersible.

10 STABILITY AND REACTIVITY

Stability :	Stable at ambient temperature and under normal conditions of use
Hazardous reactions :	
- Conditions to avoid :	May decompose : - on heating
- Hazardous decomposition products :	On combustion or on thermal decomposition (following the evaporation of water) releases : Carbon oxides (CO, CO ₂) Hydrogen fluoride, Hydrogen chloride Nitrogen oxides

11 TOXICOLOGICAL INFORMATION

Product as it is :	
Acute toxicity :	LC 50 inhalation/4h/rat: >1.17 mg/l (maximum attainable concentration - zero mortality) LD 50 dermal (Rabbit): > 5000 mg/kg LD 50 oral (Rat) : > 5000 mg/kg

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Local effects :

Skin contact :

Not irritating

Eye contact :

Not irritating

Sensitization :

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 :

Very toxic to aquatic organisms

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

LC 50 (Fish) : 2.2 mg/l

EC 50 (Algae) : 0.029 mg/l

EC 50 (Crustacean): 36 mg/l

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 :

Land transportation :

- Rail/road (RID/ADR) :

UN number : 3077

Class : 9

Classification code : M7

Hazard identification number : 90

Labelling : 9

Packaging group : III

Sea (IMO/IMDG) :

UN number : 3077

Class : 9

Labelling : 9

Packaging group : III

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Air (ICAO-IATA) :

UN number : 3077

Class : 9

Labelling : 9

Packing group : III

15 REGULATORY INFORMATION

EC LABELLING :

- Identification of the hazardous product:

Contains :

Active ingredient(s) :

Carfentrazone-ethyl : 50 % weight

- Symbols and indications of danger:

- IRRITANT (Xi)

- DANGEROUS FOR THE ENVIRONMENT (N)

- R phrases :

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 where possible.

S 57 : Use appropriate containment to avoid environmental contamination.

(*)

- Additional phrases : (*)

Prescribed phrase on label :

Follow instructions' use to avoid risk to man and the environment.

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 :

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

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.



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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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