

# MATERIAL SAFETY DATA SHEET

**Product****GAMIT 36 CS**

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Product code : 1693-6270

Version : 4

Date : 09/11/2004

Supersedes : 17/12/2003

**01 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

PRODUCT NAME : GAMIT 36 CS  
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 : 00 32 14 58 45 45  
Recommended use : Herbicide

**02 COMPOSITION / INFORMATION ON INGREDIENTS**

PREPARATION :  
Chemical nature : Herbicide based on Clomazone  
Hazardous constituents : (\*)  
Clomazone (CAS : 81777-89-1, EC auto-class. : Xn; R20/22 - R52) : 34.83 %  
Sodium nitrate (CAS : 7631-99-4, Einecs : 231-554-3, EC classification : R8 - Xn; R22 - Xi; R36/37/38) : 4.5 %  
Calcium chloride (CAS : 10043-52-4, Einecs : 233-140-8, EC classification : Xi; R36) : 4.5 %

**03 HAZARDS IDENTIFICATION**

MOST IMPORTANT HAZARDS :  
Adverse human health effects : May cause sensitization by skin contact  
Environmental effects : (\*)  
Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with. (\*)  
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

**04 FIRST AID MEASURES**

Inhalation : Move the affected person to the fresh air  
In case of cough or mild shortness of breath :  
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 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

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unconscious person anything to drink  
Consult a doctor

**05 FIRE-FIGHTING MEASURES**

Suitable extinguishing media :  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
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

**06 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  
In case of important spillage :  
Clear the danger area  
Only qualified personnel equipped with appropriate protective equipment may intervene

Environmental precautions :  
Do not allow product to spread into the environment  
Contain the spilled material by bunding

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

**07 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 :  
Store :  
- in a cool, dry area

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- 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

**08 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 : Nitrile protective gloves.
- Eye protection : (\*) Safety spectacles (\*)
- Skin and body protection : Impermeable clothing

## Hygiene measures :

Always wash your hands after handling the product  
Do not eat, drink or smoke during use  
Separate working clothes from town clothes. Launder separately

**09 PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : Liquid  
Colour : brown  
Odour : slight aromatic  
pH : 8.87 (Aqueous dispersion - 1 %)  
Flammability characteristics :  
- Flash point : > 98 °C  
- Auto-ignition temperature : 392 °C  
Specific gravity : 1.16 g/cm<sup>3</sup> at 20 °C  
Solubility :  
- in water : Dispersible.  
Dynamic viscosity : 143 - 412 mPa.s at 20 °C  
Surface tension : 68.9 mN/m at 20.5 °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, CO<sub>2</sub>)  
Nitrogen oxides  
Hydrogen chloride, Chlorine

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**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 rabbit skin  
Not irritating to rabbit eyes

Sensitization : May cause sensitization by skin contact

**12 ECOLOGICAL INFORMATION****DEGRADABILITY:**

Persistence: Clomazone :  
Half-life (in water) : 1.5 - 7 d  
Half-life (in soil) : 24 - 84 d

**BIOACCUMULATION:**

Octanol/water partition coefficient : Clomazone :  
2.5

Bioconcentration factor. Clomazone :  
BCF = 27 - 40

**ECOTOXICITY :**

Effects on the aquatic environment : Product as is :  
LC50 (Rainbow trout / 96 h) : 592.7 mg/l  
EC 50 (Daphnia)/ 48 h : 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 :**

RID/ADR/IMDG/IATA : Not restricted

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**15 REGULATORY INFORMATION**

## LABELLING :

- Identification of the hazardous product: (\*)

Contains :

Active ingredient(s) :

Clomazone : 34.83 % weight (360 g/l - 20°C)

- Symbols and indications of danger:

- IRRITANT (Xi)

- R phrases :

R 43: May cause sensitization by skin contact.

- S phrases :

S 2 : Keep out of the reach of children

S 24 : Avoid contact with skin

S 37: Wear suitable gloves.

- Additional phrases : (\*)

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

## NOTE :

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.

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.

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**16 OTHER INFORMATION**

Registered trademarks :

Gamit 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 (\*)

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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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**End of document.****Number of pages : 5**