

## **GAMIT 36 CS**

Page : 1 Version : 4 Date : 14/9/2012 Supersedes : 5/4/2012

Product code : 6270

#### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<ol> <li>1.1. Product identifier</li> <li>1.2. Relevant identified uses of the substance or mixture and uses advised against</li> <li>1.3. Details of the supplier of the safety data sheet</li> </ol>	: GAMIT 36 CS : 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
E-mail	: msdsinfo@fmc.com
1.4. Emergency telephone number	: 00 32 14 58 45 45

#### SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture 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	: Not classified as flammable by EC criteria
Classification of the product	: According to European regulations (67/548/EEC & 1999/45/EC), this product is classified as : R53
2.2. Label elements	
Identification of the hazardous product :	: Contains : Active ingredient(s) : Clomazone :
- R phrases	: R53 : May cause long-term adverse effects in the aquatic environment.
- S phrases	<ul> <li>S2 : Keep out of the reach of children.</li> <li>S13 : Keep away from food, drink and animal feedingstuffs.</li> <li>S20/21 : When using, do not eat, drink or smoke.</li> </ul>
- Additional phrases	: The following must appear on the label : To avoid risks to man and the environment, comply with the instructions for use
2.3. Other hazards	: None, to our knowledge

#### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

MIXTURE Chemical nature Hazardous constituents		: Herbicide	e based on clor	nazone		
Substance name		Contents	CAS No	EC No	Index No	Classification
Clomazone	:	< 35 %	81777-89-1			 Xn; R20/22 N; R50-53 



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ubstance name		Contents	CAS No	EC No	Index No		Classification
odium nitrate	:	5 %	7631-99-4	231-554-3			O; R8 Xn; R22 Xi; R36/37/38
							Ox. Sol. 1 H271 Acute Tox. 4 (oral) H302 Eye irrit 2 H319 Skin Irrit. 2 H315 STOT SE 3 H335
alcium chloride	:	5 %	10043-52-4	233-140-8	017-013-00-2		Xi; R36
		<b>-</b>					Eye irrit 2 H319
Further information		: Full text	of R and H ph	rases : see	section 16		
ECTION 4 FIRST AID ME	ASUR	ES					
4.1. Description of first aid	d measi	ures					
Inhalation		: Move the	e affected pers	son to the f	resh air		
		In the event of coughing and slight breathlessness:					
		Call a do		- 0			
Skin contact	: Remove	all contaminat	ted clothing	and footwear	r		
			th soap and w				
Eye contact	: Rinse wi	th plenty of wa	ater immed	iately			
_,			n persists, cor				
Ingestion			outh out with v				
ingeston		If the person is fully conscious, make him/her drink water. Never give an					
			ious person ar				0
		Consult					
4.2. Most important symp	toms ar	nd : Clomazo	one :				
effects, both acute and de			s observed in l	laboratory	animals :		
· · · · · · · · · · · · · · · · · · ·	Bleeding	Bleeding from the nose					
		Watering of the eyes					
		Loss of a	co-ordination.				
4.3. Indication of any imm		: Treat sy	mptomatically	and suppo	rtively in respo	onse to re	eactions of patient
medical attention and spe	cial						

SECTION 5 FIRE-FIGHTING MEASURES				
5.1. Extinguishing media	: Foam Carbon dioxide (CO2) Powders			
5.2. Special hazards arising from the substance or mixture	: Toxic fumes are released			
5.3. Advice for fire-fighters	<ul> <li>Isolate fire area. Evacuate downwind</li> <li>Do not breath fumes</li> <li>Do not dispose of fire-fighting water in the environment</li> <li>Do not attempt to fight the fire without suitable protective equipment :</li> <li>Complete protective clothing</li> <li>Self-contained breathing apparatus</li> </ul>			

### SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective	: For non-emergency personnel :
equipment and emergency	Avoid contact with skin and eyes
procedures	Do not breathe vapours
-	For emergency responders :
	Do not attempt to intervene without a suitable protective equipment



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### SECTION 6 ACCIDENTAL RELEASE MEASURES (continued)

	For further information see section 8
6.2 Environmental precautions	: Do not allow product to spread into the environment Contain the spilled material by bunding (product is hazardous for the environment)
6.3. Methods and material for containment and cleaning up	
- Neutralization :	<ul> <li>Absorb spillage with:</li> <li>inert absorbent material</li> <li>earth or sand</li> <li>Neutralize non-recoverable product with :</li> <li>a 20 % solution of potassium hydroxide in methanol</li> <li>Cover the treated area with plastic and let stand for 24 h. Remove the covering and place in a drum for a later disposal</li> </ul>
- Cleaning/decontamination	: Wash with plenty of water and detergent
- Disposal	: Dispose of contaminated materials in accordance with current regulations
6.4 Reference to other sections	: For further information see section 13

#### SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling	
Technical measures	: Vapour extraction at source
Precautions	: Avoid any direct contact with the product Work in a well-ventilated area
Hygiene measures	<ul> <li>Always wash your hands after handling the product</li> <li>Do not eat, drink or smoke during use</li> <li>Separate working clothes from town clothes and launder separately</li> </ul>
7.2. Conditions for safe storage, including any incompatibilities	
Storage conditions	
- Recommended	<ul> <li>Store :</li> <li>- in a cool and dry area</li> <li>- in a well-ventilated area</li> <li>- protected from frost.</li> <li>- away from food and drinks and animal foodstuffs</li> <li>- out of reach of children</li> </ul>
Packaging materials	
- Recommended	: Original packaging
7.3. Specific end use(s)	: No information available

#### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

8.1. Control parameters	
Occupational exposure limits	: No specific limit
8.2. Exposure controls	
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 Nitrile-rubber protective gloves



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### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

- Eye protection

- : Safety goggles
- Skin and body protection
- : Impermeable clothing

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on basic physical and chemical properties	
Physical state	: Homogeneous liquid
Colour	: light beige
Odour	: slight aromatic
Odour threshold	: Not determined
рН	: 8.87 (Aqueous dispersion - 1 %)
Specific temperatures	
- Boiling	: Not determined
- Melting point	: Not determined
Decomposition temperature	: Not determined
Flammability characteristics	
- Flash point	: > 79 °C
- Auto-ignition temperature	: 392 °C
Oxidizing properties	: Non oxidizing material according to EC criteria
Explosion properties	: Not explosive
Vapour pressure	: Not determined
Vapour density (air = 1)	: Not determined
Relative density (water = 1)	: 1.1712 (20 °C)
Solubility	
- in water	: Dispersible
Octanol/water partition coefficient	: Not determined
Kinematic viscosity	: Not determined
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)
Evaporation rate	: Not determined
9.2 Other information	: No information available

#### SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity	: To our knowledge, the product does not present any particular risk
10.2. Chemical stability	: Stable at ambient temperature and under normal conditions of use
10.3. Possibility of hazardous reactions	: None, to our knowledge
10.4. Conditions to avoid	: None, to our knowledge
10.5. Incompatible materials	: None, to our knowledge
10.6. Hazardous decomposition products	: Carbon oxides (CO, CO2) On thermal decomposition (pyrolysis), releases : Nitrogen oxides Hydrochloric acid, Chlorine



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#### SECTION 11TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects	
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
Skin corrosion/irritation	: Not irritating to rabbits on cutaneous application.
Serious eye damage/irritation	: Not irritating to rabbits on ocular application.
Respiratory or skin sensitization	: Does not cause sensitisation
Repeated dose toxicity	: Clomazone : NOAEL (rat, 28 days) : 1000 mg/kg/ day
Carcinogenicity	: Clomazone : No cancerogenic effects were noted
Mutagenicity	: Clomazone : No mutagenic effects were noted
Reproductive toxicity	: Clomazone : Fertility and development toxicity tests did not reveal any effect on reproduction

#### **SECTION 12 ECOLOGICAL INFORMATION**

12.1. Toxicity	<ul> <li>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 Clomazone : LD50(birds) : &gt; 2510 mg/kg</li> </ul>
12.2. Persistence and degradability	: Clomazone : Half-life (whole system) : 40.4 - 66.9 d Half-life (in soil) : 15 - 90 d
12.3. Bioaccumulative potential	: Clomazone : log Pow = 2.54 (23 °C) BCF : 40
12.4. Mobility in soil	: Clomazone has medium mobility in soil
12.5. Results of PBT and vPvB assessment	: Clomazone does not meet the PBT and vPvB classification criteria
12.6. Other adverse effects	: No information available

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods 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	: Dispose of in accordance with relevant local regulations Do not re-use empty container



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SECTION 14 TRANSPORT INFORMATION		
14.1. UN number		
14.2. UN proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Clomazone)	
14.3. Transport hazard class(es)	: 9	
14.4. Packing group	: III	
14.5. Environmental hazards	: Additional marking : "Environmentally hazardous substance" Marine pollutant : YES	
14.6. Special precautions for user	: No information available	
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	: No information available	
SECTION 15 REGULATORY INFORMATION		
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	: No additional information available	
15.2. Chemical Safety Assessment	: A chemical safety assessment acc. to art. 14 of Regulation (EC) No 1907/2006 is not required, because art. 15 of the same regulation applies	
SECTION 16 OTHER INFORMATION		
R phrases text of § 2&3	: R8 : Contact with combustible material may cause fire. R20/22 : Harmful by inhalation and if swallowed	

R phrases text of § 2&3	<ul> <li>R8 : Contact with combustible material may cause fire.</li> <li>R20/22 : Harmful by inhalation and if swallowed.</li> <li>R22 : Harmful if swallowed.</li> <li>R36 : Irritating to eyes.</li> <li>R36/37/38 : Irritating to eyes, respiratory system and skin.</li> <li>R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> </ul>
H phrases text of § 2&3	<ul> <li>H271 : May cause fire or explosion; strong oxidizer</li> <li>H302 : Harmful if swallowed</li> <li>H315 : Causes skin irritation</li> <li>H319 : Causes serious eye irritation</li> <li>H332 : Harmful if inhaled</li> <li>H335 : May cause respiratory irritation</li> <li>H400 : Very toxic to aquatic life</li> <li>H410 : Very toxic to aquatic life with long lasting effects</li> </ul>
* Update :	: This sheet was updated (refer to the date at the top of this page) This sheet has been revised completely (changes were not marked)
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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. The user 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 fulfill 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.

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