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Product code: 6508

## **METRIC**

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

: METRIC 1.1. Product identifier

1.2. Relevant identified uses of the substance or mixture and uses

advised against

1.3. Details of the supplier of the

safety data sheet

Name : FMC CHEMICAL SprI : Boulevard de la Plaine, 9/3 **Address** 

1050 BRUXELLES

: 00 32 14 58 45 45

: Herbicide

**BELGIQUE** Telephone number : 00 32 2 6459584

Telefax number : 00 32 2 6459655 E-mail : msdsinfo@fmc.com

#### **SECTION 2 HAZARDS IDENTIFICATION**

2.1. Classification of the substance or mixture

1.4. Emergency telephone number

**MOST IMPORTANT HAZARDS** 

: To our knowledge, no specific risk when handled in accordance with good Adverse human health effects

occupational hygiene and safety practice.

**Environmental effects** : Very toxic to aquatic organisms, 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

Not classified as flammable by EC criteria

: According to European regulations (67/548/EEC & 1999/45/EC), this product is Classification of the product

classified as:

N: R50/53 2.2. Label elements

- Symbols and indications of danger



: - DANGEROUS FOR THE ENVIRONMENT (N)

: R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in - R phrases

the aquatic environment.

: S2 : Keep out of the reach of children. - S phrases

S13: Keep away from food, drink and animal feedingstuffs.

S20/21: When using, do not eat, drink or smoke. S36/37: Wear suitable protective clothing and gloves.

- 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



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

**MIXTURE** 

: Herbicide based on metribuzine and clomazone **Chemical nature** 

Hazardous constituents

Substance name		Contents	CAS No	EC No	Index No	No registration	Classification
Metribuzin (ISO)	:	< 25 %	21087-64-9	244-209-7	606-034-00-8		Xn; R22 N; R50-53
							Acute Tox. 4 (oral) H302 Aquatic Acute 1 H400 (M fact. = 10) Aquatic Chronic 1 H410 (M fact. = 10)
Sodium nitrate	:	< 12 %	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
Calcium chloride	:	< 10 %	10043-52-4	233-140-8	017-013-00-2		Xi; R36
							Eye irrit 2 H319
Clomazone	:	< 10 %	81777-89-1				Xn; R20/22 N; R50-53
							A T 4 (" - 1 - 1) 11000

Acute Tox. 4 (inhal) H332 Acute Tox. 4 (oral) H302 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

**Further information** : Full text of R and H phrases : see section 16

#### **SECTION 4 FIRST AID MEASURES**

4.1. Description of 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

: Rinse with plenty of water immediately Eye contact

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

4.2. Most important symptoms and effects, both acute and delayed

: No information available

4.3. Indication of any immediate medical attention and special

treatment needed

: Treat symptomatically and supportively in response to reactions of patient

## **SECTION 5 FIRE-FIGHTING MEASURES**

5.1. Extinguishing media

Suitable extinguishing media: : Foam

Carbon dioxide (CO2)

Powders

: Water (the product is dangerous for the environment - do not dilute it) Not suitable extinguishing media:

**5.2. Special hazards arising from the** : Toxic fumes are released

substance or mixture

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#### **SECTION 5 FIRE-FIGHTING MEASURES (continued)**

5.3. Advice for fire-fighters : Isolate fire area. Evacuate downwind

Do not dispose of fire-fighting water in the environment

Do not breath fumes

Do not attempt to fight the fire without suitable protective equipment:

Self-contained breathing apparatus Complete protective clothing

#### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

6.1. Personal precautions, protective : For non-emergency personnel :

equipment and emergency

procedures

Avoid contact with skin and eyes

Do not breathe vapours For emergency responders:

Do not attempt to fight the fire without suitable protective equipment

For further information see section 8

: Do not allow product to spread into the environment 6.2 Environmental precautions

Contain the spilled material by bunding (product is hazardous for the environment)

6.3. Methods and material for containment and cleaning up

- Neutralization:

: Absorb spillage with: - inert absorbent material

- earth or sand

- 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

: Always wash your hands after handling the product Hygiene measures

Do not eat, drink or smoke during use

Separate working clothes from town clothes and launder separately

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

- Recommended : Store :

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

- away from food and drinks and animal foodstuffs

- out of reach of children

**Packaging materials** 

- Recommended : Original packaging 7.3. Specific end use(s) : No information available



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## **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 : Nitrile-rubber protective gloves

- 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 : Viscous liquid
Colour : light brown
Odour : slight aromatic
Odour threshold : Not determined
pH : 8.27 (20 °C)

Specific temperatures

Boiling : Not applicable to this kind of formulation
 Melting point : Not applicable to this kind of formulation
 Decomposition temperature : Not applicable to this kind of formulation

Flammability characteristics

- Flash point : Not determined

- Auto-ignition temperature : 330 °C

Oxidizing properties : Non oxidizing material according to EC criteria

Explosion properties : Not explosive

Vapour pressure : Not applicable

Vapour density (air = 1) : Not applicable

Relative density (water = 1) : 1.2074 (20 °C)

Solubility

in water
 Soluble
 Octanol/water partition coefficient
 Not applicable
 133.1 mm²/s (20 °C)
 160.7 mPa.s (20 °C)

**Evaporation rate** : Not applicable to this kind of formulation **9.2 Other information** : No additional information available

#### **SECTION 10 STABILITY AND REACTIVITY**

10.1. Reactivity : To our knowledge, the product does not present any particular risk10.2. Chemical stability : Stable at ambient temperature and under normal conditions of use

**10.3. Possibility of hazardous** : None under normal conditions.

reactions



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#### **SECTION 10 STABILITY AND REACTIVITY (continued)**

10.4. Conditions to avoid : High temperature 10.5. Incompatible materials : None, to our knowledge

10.6. Hazardous decomposition : On thermal decomposition (pyrolysis), releases : products

Carbon oxides (CO, CO2)

Nitrogen oxides Sulphur oxides Hydrogen cyanide

Chlorine Phosgene

Various hydrocarbon fragments

## SECTION 11TOXICOLOGICAL INFORMATION

11.1. Information on toxicological

effects

**Acute toxicity** : LD 50 skin (Rat) : > 2000 mg/kg

LD 50 oral (rat) : > 2000 mg/kg

Skin corrosion/irritation : Not irritating to rabbits on cutaneous application. Serious eye damage/irritation : Slightly irritating to rabbits on ocular application.

: Does not cause sensitisation Respiratory or skin sensitization

Repeated dose toxicity : NOAEL (rat, 28 days) : 1000 mg/kg/ day ( Clomazone technical ) Carcinogenicity : No carcinogenic effect was noted ( Clomazone technical ) : No mutagenic effects were noted ( Clomazone technical ) Mutagenicity Reproductive toxicity : No indication of effect on reproduction ( Clomazone technical )

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

12.1. Toxicity : Product as is :

Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment

LC 50 (Fish: Onchorhyncus mykiss) / 96h: > 100 mg/l EC 50 (Daphnia: Daphnia magna) / 48h: 72 mg/l EC 50 (Algae: Desmodesmus subspicatus) / 72 h: < 1 mg/l

Clomazone:

LD50(birds): > 2510 mg/kg

12.2. Persistence and degradability Clomazone:

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

12.3. Bioaccumulative potential : Clomazone :

log Pow = 2.5BCF: 27 - 40 Metribuzin: log Pow = 1.6

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

: No information available 12.6. Other adverse effects



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

13.1. Waste treatment methods

**WASTE FROM PRODUCT** 

Prohibition:: Discharging waste into rivers and drains is prohibitedDestruction/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

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

national or local regulations regarding disposal

#### **SECTION 14 TRANSPORT INFORMATION**

**14.1. UN number** : 3082

14.2. UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metribuzin (

ISO), Clomazone)

14.3. Transport hazard class(es) : 9
14.4. Packing group : III

**14.5. Environmental hazards** : Additional marking : "Environmentally hazardous substance"

14.6. Special precautions for user14.7. Transport in bulk according to14.7. No information available

Annex II of MARPOL73/78 and the IBC

Code

#### **SECTION 15 REGULATORY INFORMATION**

**15.1. Safety, health and** : No additional information available

environmental regulations/legislation specific for the substance or mixture

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.

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.

H phrases text of § 2&3 : H271 : May cause fire or explosion; strong oxidizer

H302 : Harmful if swallowed H315 : Causes skin irritation H319 : Causes serious eye irritation

H332: Harmful if inhaled

H335 : May cause respiratory irritation H400 : Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

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#### **SECTION 16 OTHER INFORMATION (continued)**

Sources of data: : Dossiers Belchim Crop Protection NV

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.

**End of document**