

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : Altiplano DAM Tec  
Product code : 6708

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Herbicide

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

FMC CHEMICAL Sprl  
Boulevard de la Plaine, 9/3  
1050 BRUXELLES - BELGIQUE  
T 00 32 2 6459584 - F 00 32 2 6459655  
[msdsinfo@fmc.com](mailto:msdsinfo@fmc.com)

#### 1.4. Emergency telephone number

Emergency number : 00 32 14 58 45 45 (all countries)

Country	Organisation/Company	Address	Emergency number
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn B -1120 Brussels	+32 70 245 245
BULGARIA	National Toxicological Information Centre National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Totleben Boulevard 1606 SOFIA	+359 2 9154 409
ČESKÁ REPUBLIKA	Toxikologické informační středisko	Na Bojisti 1 120 00 Praha 2	+420 224 919 293 +420 224 915 402
DANMARK	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 Copenhagen NV	+45 82 12 12 12
FRANCE	ORFILA	<a href="http://www.centres-antipoison.net">http://www.centres-antipoison.net</a>	+33 (0)1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben Institut für Toxikologie, Klinische Toxikologie und Giftnotruf Berlin	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
ITALY	Centro Antiveneni Ospedale Niguarda Ca' Granda	Piazza Ospedale Maggiore 3 20162 Milano	+39 02 6610 1029
LITHUANIA	Poisons Control and Information Bureau	Siltnamiu 29 2043 Vilnius	+370 523 62052 +370 687 53378
NEDERLAND	Nationaal Vergiftigingen Informatie Centrum (Uitsluitend bestemd om artsen te informeren bij accidentele vergiftigingen)	Heidelberglaan 100 3584 CX Utrecht	+31 30 274 88 88
NORWAY	Giftinformasjonen Directorate of Health and Social Affairs	P.O. Box 7000 St. Olavs Plass 130 Oslo	+47 22 591300
POLAND	Warsaw Poison Control and Information Centre Praski Hospital	Al. Solidarnosci 67 P-03 401 Warszawa	+48 22 619 66 54 +48 22 619 08 97
PORTUGAL	Centro de Informação Antivenenos – Dra Arlinda Borges Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	Institutul National de Sanatate Publica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 Bucuresti, directie.generala (at) insp.gov.ro 050463 Bucuresti	+40 21318 3606
SLOVAKIA	National Toxicological Information Centre University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SLOVENIA	Poison Centre Division of Internal Medicine	University Clinical Centre Zaloska 7 1525 Ljubljana	+ 386 41 650 500

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according to Regulation (EC) No. 453/2010

Country	Organisation/Company	Address	Emergency number
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SUOMI	Myrkytystietokeskus	P.O.B 790 (Tukholmankatu 17) HUS SF - 00029 Helsinki	+358 9 471 977
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	08-331231 (Måndag-Fredag; 9.00-17.00) 112 (0.00-24.00)
SWITZERLAND	Centre Suisse d'Information Toxicologique Swiss Toxicological Information Centre	Freiestrasse 16 Postfach CH-8028 Zurich	145
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0870 600 6266 (UK only)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC or 1999/45/EC

N; R51/53

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice

Very toxic to aquatic life with long lasting effects

Not classified as flammable by EC criteria.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS09

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

: P273 - Avoid release to the environment

P391 - Collect spillage

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

EUH phrases

: EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Napropamide	(CAS No) 15299-99-7 (EC no) 239-333-3	< 45	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Sulfonated aromatic polymer, sodium salt		< 10	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Ciomazone	(CAS No) 81777-89-1	< 5	Xn; R20/22 N; R50/53	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium 2-[methyleolamino]ethane-1-sulphonate	(CAS No) 137-20-2 (EC no) 205-285-7	< 5	Xi; R41 Xi; R38	Skin Irrit. 2, H315 Eye Dam. 1, H318
Sodium nitrate	(CAS No) 7631-99-4 (EC no) 231-554-3 (REACH-no) 01-2119488221-41	< 5	O; R8	Ox. Sol. 3, H272 Eye Irrit. 2, H319

Full text of R- and H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air In the event of exposure to high concentrations of dust : Call a doctor.
First-aid measures after skin contact	: Remove all contaminated clothing and footwear Wash with soapy water.
First-aid measures after eye contact	: Rinse immediately with plenty of water Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth with water If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink Consult a doctor/medical service.

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

Symptoms/injuries	: Clomazone : Symtoms observed in laboratory animals : Nosebleed, Watering of the eyes, Loss of coordination.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively in response to reactions of patient.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Carbon dioxide (CO2) Powder.
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#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: On combustion or on thermal decomposition (pyrolysis) releases : Carbon oxides (CO, CO2), Nitrogen oxides, Various hydrocarbon fragments.
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#### 5.3. Advice for firefighters

Firefighting instructions	: Isolate fire area. Evacuate downwind Do not breathe fumes Contain the extinguishing fluids by bunding (the product is hazardous for the environment).
Protection during firefighting	: Do not attempt to take action without suitable protective equipment Complete protective clothing Self-contained breathing apparatus.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures	: Avoid contact with skin and eyes Do not breathe dust Do not smoke.
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##### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment For further information refer to section 8: "Exposure controls/personal protection".
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#### 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

For containment	: Sweep up or vacuum up the product Avoid creating or spreading dust Keep recovered product for subsequent disposal.
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Methods for cleaning up	: Wash contaminated area with large amounts of water.
Other information	: Dispose of contaminated materials in accordance with current regulations.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Dust extraction (suction) Avoid any direct contact with the product Work in a well-ventilated area Do not breathe dust.
Hygiene measures	: Always wash hands after handling the product Do not eat, drink or smoke when using this product Separate working clothes from town clothes. Launder separately.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in dry, cool, well-ventilated area Protect against frost Keep away from food, drink and animal feeding stuffs Keep out of the reach of children.
Packaging materials	: Original packaging.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station Extraction to remove dust at its source.
Hand protection	: Protective gloves The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374 Breakthrough time : refer to the recommendations of the supplier.
Eye protection	: Safety goggles.
Skin and body protection	: Impermeable clothing.
Respiratory protection	: Filtering respiratory protective device with a pesticide canister.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Pellet.
Colour	: Brown.
Odour	: Faint chemical.
Odour threshold	: Not applicable
pH	: 6,08 (1% aqueous dispersion)
Relative evaporation rate (butyl acetate=1)	: Not applicable
Melting point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable to solid products
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
Flammability (solid, gas)	: Non flammable
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: Not applicable
Relative density	: 0,59 - 0,6
Solubility	: Water: Dispersible
Log Pow	: Not applicable
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available

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Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing material.
Explosive limits	: No data available

### 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 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

On thermal decomposition (pyrolysis), releases :

Carbon oxides (CO, CO<sub>2</sub>)

Nitrogen oxides

Various hydrocarbon fragments.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Altiplano DAM <sup>Tec</sup>	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat	> 4,71 mg/l/4h

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Clomazone & Napropamide :  
No mutagenic effects were noted

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Clomazone & Napropamide :  
No carcinogenic effect was noted

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Clomazone & Napropamide :  
No indication of effect on reproduction

Specific target organ toxicity (single exposure) : Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated exposure) : Not classified (Based on available data, the classification criteria are not met)

Clomazone (81777-89-1)	
NOAEL, rat	1000 mg/kg bw/day (28 days)
NOAEL, rat	41 mg/kg bw/day (2 years)

Napropamide (15299-99-7)	
NOAEL (oral, rat, 90 days)	30 mg/kg bodyweight/day

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Altiplano DAM <sup>Tec</sup>	
LC50 fishes	33,7 mg/l/96h

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Altiplano DAM <sup>Tec</sup>	
EC50 Daphnia	37 mg/l/48h
ErC50 (algae)	44,5 mg/l/72h
ErC50 (other aquatic plants)	1,13 mg/l
NOEC (chronic)	< 0,03 mg/l
NOEC chronic algae	1 mg/l

### 12.2. Persistence and degradability

Clomazone (81777-89-1)	
Persistence and degradability	Half-life (whole system) : 40.4 - 66.9 days Half-life (in soil) : 15 – 90 days.

Napropamide (15299-99-7)	
Persistence and degradability	Not readily biodegradable.

### 12.3. Bioaccumulative potential

Clomazone (81777-89-1)	
BCF	40
Log Pow	2,54 (23 °C)

Napropamide (15299-99-7)	
Log Pow	3,3 (25 °C)

### 12.4. Mobility in soil

Clomazone (81777-89-1)	
Mobility in soil	Medium mobility in soil

Napropamide (15299-99-7)	
Mobility in soil	Medium mobility in soil

### 12.5. Results of PBT and vPvB assessment

Component	
Clomazone (81777-89-1)	The product does not meet the PBT and vPvB classification criteria
Napropamide (15299-99-7)	The product does not meet the PBT and vPvB classification criteria

### 12.6. Other adverse effects

No additional information available




## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of in accordance with relevant local regulations.
Waste disposal recommendations	: Clean with water Dispose of in accordance with relevant local regulations Do not re-use empty containers.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA
<b>14.1. UN number</b>		
3077	3077	3077
<b>14.2. UN proper shipping name</b>		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Napropamide, Clomazone)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Napropamide, Clomazone)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Napropamide, Clomazone)
<b>14.3. Transport hazard class(es)</b>		
9	9	9
		
<b>14.4. Packing group</b>		
III	III	III
<b>14.5. Environmental hazards</b>		
Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes

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ADR	IMDG	IATA
	Marine pollutant : Yes	

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Classification code (ADR)	: M7
Special provisions (ADR)	: 274 335 601
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1

#### 14.6.2. Transport by sea

Special provisions (IMDG)	: 274 335 966 967
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1

#### 14.6.3. Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions  
Contains no REACH candidate substance

#### 15.1.2. National regulations

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

Indication of changes:

This sheet was updated (refer to the date at the top of this page)

SDS changed section(s) : 2-12-14.

Other information : Altiplano, DAM<sup>Tec</sup> and FMC are registered trademarks of FMC Corporation.

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 3	Oxidising Solids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H272	May intensify fire; oxidiser
H302	Harmful if swallowed
H315	Causes skin irritation

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H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R20/22	Harmful by inhalation and if swallowed
R36/38	Irritating to eyes and skin
R38	Irritating to skin
R41	Risk of serious damage to eyes
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R8	Contact with combustible material may cause fire
N	Dangerous for the environment
O	Oxidising
Xi	Irritant
Xn	Harmful

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*