

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

1.1. Product identifier

Product form : Mixture
 Name : Alcance Sync^{Tec}
 Product code : 6684

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

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 Tolleben 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	http://www.centres-antipoison.net	+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
GREECE	Poison Information Centre Children's Hospital P&A Kyriakou	11762 Athens	+30 21 07 79 37 77
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
ITALY	Centro Antiveleni Ospedale Niguarda Ca' Granda	Piazza Ospedale Maggiore 3 20162 Milano	+39 02 6610 1029
ITALY	TAVOLA S.p.A. (Only available during office hours)	Via Bernardino Verro, 35 20141 Milano	+39 02 84473249
LITHUANIA	Poisons Control and Information Bureau	Siltnamiu 29 2043 Vilnius	+370 523 62052 +370 687 53378
NEDERLAND	Nationaal Vergiftigen Informatie Centrum (Uitsluitend bestemd omartsen te informeren bij accidentele vergiftigen)	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
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20

Country	Organisation/Company	Address	Emergency number
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)
UNITED KINGDOM	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0870 600 6266 (UK only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

N; R50/53

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 organisms, may cause long-term adverse effects in the aquatic environment

Not classified as flammable by EC criteria.

2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols



N - Dangerous for the environment

Hazardous ingredients

: Pendimethalin

R-phrases

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

S-phrases

: S2 - Keep out of the reach of children
S13 - Keep away from food, drink and animal feedingstuffs
S20/21 - When using do not eat, drink or smoke
S23 - Do not breathe aerosol
S29 - Do not empty into drains
S60 - This material and its container must be disposed of as hazardous waste
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets

Extra phrases

: To avoid risks to man and the environment, comply with the instructions for use
Contains Pendimethalin(40487-42-1). May produce an allergic reaction

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Description: : Herbicide based on pendimethalin and clomazone

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Pendimethalin	(CAS No) 40487-42-1 (EC no) 254-938-2 (EC index no) 609-042-00-X	< 40	R43 N; R50/53	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Clomazone	(CAS No) 81777-89-1	< 10	Xn; R20/22 N; R50/53	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
calcium chloride	(CAS No) 10043-52-4 (EC no) 233-140-8 (EC index no) 017-013-00-2 (REACH-no) 01-2119494219-28-0015	< 10	Xi; R36	Eye Irrit. 2, H319
Sodium nitrate	(CAS No) 7631-99-4 (EC no) 231-554-3 (REACH-no) 01-2119488221-41	< 10	O; R8	Ox. Sol. 3, H272 Eye Irrit. 2, H319
Lignosulfonic acid, sodium salt, sulfomethylated	(CAS No) 68512-34-5	< 5	Xi; R36	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 to the fresh air
In the event of coughing and slight breathlessness: 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 with plenty of water immediately
If irritation persists, consult an eye specialist.
- First-aid measures after ingestion : Rinse mouth out with water
If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink
Ask for medical advice.

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

No additional 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: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam
Carbon dioxide (CO₂)
Powder.
- Unsuitable extinguishing media : Water (the product is dangerous for the environment - do not dilute it).

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Toxic fumes are released.

5.3. Advice for firefighters

- Firefighting instructions : Isolate fire area. Evacuate downwind
Do not dispose of fire-fighting water in the environment
Do not breathe fumes.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment
Self-contained breathing apparatus
Complete protective clothing.

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 vapours.

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".

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 : Absorb spillage with: inert absorbent material, Sand/earth.

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according to Regulation (EC) No. 453/2010

- Methods for cleaning up : To clean the floor or objects contaminated by this product, use :
a 20 % solution of potassium hydroxide in methanol
Then wash with water and detergent.
- 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 : Vapour extraction at source
Avoid any direct contact with the product
Work in a well-ventilated area.
- 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
Keep out of frost
Protect from sunlight
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 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 vapours at their source.
- Hand protection : Neoprene rubber gloves.
- Eye protection : Safety goggles.
- Skin and body protection : Impermeable clothing.
- Respiratory protection : In the event of insufficient ventilation: 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 : Liquid
- Appearance : Viscous.
- Colour : dark yellow.
- Odour : slight.
- Odour threshold : Not determined
- pH : 6,2 (21°C)
- Relative evaporation rate (butylacetate=1) : Not applicable
- Melting point : Not applicable
- Boiling point : Not applicable
- Flash point : > 100 °C
- Self ignition temperature : 267 °C
- Decomposition temperature : Not applicable
- Flammability (solid, gas) : Not applicable
- Vapour pressure : Not applicable
- Relative vapour density at 20 °C : Not applicable
- Relative density : 1,13 (20 °C)
- Solubility : Water: Dispersible
- Log Pow : Not applicable
- Viscosity, kinematic : Not applicable
- Viscosity, dynamic : 129 - 397 mPa.s (20 °C)

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according to Regulation (EC) No. 453/2010

Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing material according to EC criteria.
Explosive limits	: Not applicable

9.2. Other information

Other properties	: Surface tension : 57.5 - 60.7 (20 °C).
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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

High temperature.

10.5. Incompatible materials

None to our knowledge.

10.6. Hazardous decomposition products

On thermal decomposition (pyrolysis), releases :

Carbon oxides (CO, CO₂)

Nitrogen oxides

Chlorine

Hydrogen chloride

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)

Alcance Sync ^{Tec}	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat	> 5 mg/l/4h

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

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

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

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

Clomazone :

NOAEL (rat, 28 days) : 1000 mg/kg

Pendimethalin :

No substance-specific organotoxicity was observed after repeated administration of high doses to animals. Adaptive effects were observed after repeated exposure in animal studies

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

No carcinogenic effect was noted (Clomazone + Pendimethalin)

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

No mutagenic effects were noted (Clomazone + Pendimethalin)

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

No indication of effect on reproduction (Clomazone + Pendimethalin)

SECTION 12: Ecological information

12.1. Toxicity

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

Alcance Sync ^{Tec}	
LC50 fish	101 mg/l/96h (Oncorhynchus mykiss) (Results obtained on a similar product)
EC50 Daphnia	65,5 mg/l/48h (Daphnia magna)(Results obtained on a similar product)
ErC50 (algae)	0,283 - 2,31 mg/l/72h (Pseudokirchnerella subcapitata)

12.2. Persistence and degradability

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according to Regulation (EC) No. 453/2010

Pendimethalin (40487-42-1)	
Persistence and degradability	Half-life (in soil) : 90-120 days.

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

12.3. Bioaccumulative potential

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

12.4. Mobility in soil

Pendimethalin (40487-42-1)	
Mobility in soil	The product is not mobile in soil

Clomazone (81777-89-1)	
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

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Discharging into rivers and drains is forbidden.
Waste disposal recommendations	: Dispose of in accordance with relevant local regulations Incinerate at a licensed installation.
Additional information	: Clean container 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

14.1. UN number

UN-No (ADR)	: 3082
UN-No.(IATA)	: 3082
UN-No. (IMDG)	: 3082

14.2. UN proper shipping name

Proper Shipping Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pendimethalin(40487-42-1) Clomazone(81777-89-1)), 9, III, (E)

14.3. Transport hazard class(es)

Class (UN)	: 9
Class (IATA)	: 9
Class (IMDG)	: 9
Hazard labels (UN)	: 9



14.4. Packing group

Packing group (UN)	: III
Packing group (IMDG)	: III

14.5. Environmental hazards

Dangerous for the environment

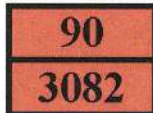


Other information : Dangerous for the environment.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90
 Classification code (UN) : M6
 Orange plates :



Special provision (ADR) : 274
 335
 601
 Transport category (ADR) : 3
 Tunnel restriction code : E
 Limited quantities (ADR) : 5L
 Excepted quantities (ADR) : E1
 EAC code : •3Z

14.6.2. Transport by sea

MFAG-No : 171

14.6.3. Air transport

No additional information available

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) :1-2-3-11-12.

Other information : Alcance is a trademark of FMC Corporation
 FMC is a registered trademark 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 — AcuteHazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 3	Oxidising Solids, Category 3
Skin Sens. 1	Sensitisation — Skin, category 1
H272	May intensify fire; oxidiser

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H302	Harmful if swallowed
H317	May cause an allergic skin reaction
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	Irritating to eyes
R43	May cause sensitisation by skin contact
R50/53	Very 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