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

1.1. Product identifier

Product form : Mixture
Product name : SHOCK
Product code : 7006

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 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	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
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 Antiveleni 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 omartsen 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 Nacional 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

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)
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 Acute 1 H400

Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

N; R50/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

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 this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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

Description: : Herbicide based on carfentrazone-ethyl and glyphosate isopropylamine salt

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glyphosate IPA salt	(CAS No) 38641-94-0	< 70	R52/53	Aquatic Chronic 3, H412
D-glucopyranoside, C9-11 alkyl oligomer	(CAS No) 132778-08-6	< 20	Xi; R41	Eye Dam. 1, H318
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	(EC no) 922-153-0 (REACH-no) 01-2119451097-39	< 10	Xn; R65 R66 N; R51/53	Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Sodium 2-[methyloleoylamino]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

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Carfentrazone-ethyl	(CAS No) 128639-02-1 (EC index no) 607-309-00-5	< 3	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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
If the person feels unwell : Call a doctor.

First-aid measures after skin contact : Remove all contaminated clothing and footwear
Wash with soapy water
If case of redness or irritation, call a doctor.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes
If irritation persists, consult an eye specialist.

First-aid measures after ingestion : If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink
Call a doctor.

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 : Powder
Foam
Carbon dioxide (CO2).

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 : During combustion :
Toxic vapours may be released.

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 :
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.

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.

Methods for cleaning up : Wash with plenty of water and detergent
Dispose of contaminated material at an authorized site.

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	:	Ensure good ventilation of the work station Avoid contact with skin and eyes.
Hygiene measures	:	Always wash hands after handling the product Do not drink, eat or smoke in the workplace Always take a shower after work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Keep container tightly closed Store in dry, cool, well-ventilated area Keep out of the reach of children Keep away from food, drink and animal feeding stuffs.
Incompatible materials	:	Strong oxidizing agents.
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.
Hand protection	:	Nitrile-rubber protective gloves Neoprene protective gloves.
Eye protection	:	Safety glasses with side shields.
Skin and body protection	:	Handling large quantities of product: Impermeable suit (Hypalon, Tyvek, Saranex, PVC...).
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	:	Liquid
Colour	:	Opaque cream - white.
Odour	:	of chemical.
Odour threshold	:	No data available
pH	:	4,58
Relative evaporation rate (butyl acetate=1)	:	No data available
Melting point	:	No data available
Boiling point	:	No data available
Flash point	:	> 79 °C
Auto-ignition temperature	:	458 °C
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	1,1695 (20°C)
Solubility	:	No data available
Log Pow	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	203 - 785 mPa.s (20 °C) - 54-502 mPa.s (40 °C)
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 under normal use.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases :
Carbon oxydes (CO, CO2)
Nitrogen oxides
Hydrochloric acid
Hydrogen fluoride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

SHOCK	
LD50 oral rat	> 5000 mg/kg (Results obtained on a similar product)
LD50 dermal rat	> 5000 mg/kg (Results obtained on a similar product)
LC50 inhalation rat	> 2,5 mg/l/4h (Results obtained on a similar product)

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

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

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)

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

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

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)

Carfentrazone-ethyl (128639-02-1)	
NOAEL, rat	50 ppm (3 mg/kg bw/day 2 years)

Glyphosate IPA salt (38641-94-0)	
NOAEL, rat	31 mg/kg bw/day (2 years)

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.

SHOCK	
LC50 fishes	29 mg/l/96h (Results obtained on a similar product)
EC50 Daphnia	20,31 mg/l/48h (Results obtained on a similar product)
ErC50 (algae)	18,57 mg/l (Results obtained on a similar product)
ErC50 (other aquatic plants)	150 µg/l (Lemna gibba) (Results obtained on a similar product)

12.2. Persistence and degradability

Carfentrazone-ethyl (128639-02-1)	
Persistence and degradability	Half-life (in water) : 8.3 days (pH = 5) Half-life (in soil) : < 1.5 days.

Glyphosate IPA salt (38641-94-0)	
Persistence and degradability	Half-life (in soil) : 2-174 days.

12.3. Bioaccumulative potential

Carfentrazone-ethyl (128639-02-1)	
BCF	159
Log Pow	3,36 (20°C)

12.4. Mobility in soil

Carfentrazone-ethyl (128639-02-1)	
Ecology - soil	Very mobile.

Glyphosate IPA salt (38641-94-0)	
Ecology - soil	Immobile in soil.

12.5. Results of PBT and vPvB assessment

Component	
Carfentrazone-ethyl (128639-02-1)	Moderately persistent

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
Dispose of in accordance with relevant local regulations
Incinerate at a licensed installation
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

Transport document description : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Carfentrazone-ethyl(128639-02-1) ; Glyphosate IPA salt(38641-94-0)), 9, III, (E)

14.3. Transport hazard class(es)

Class : 9
Hazard labels : 9

14.4. Packing group

Packing group (ADR) : III
Packing group (IATA) : 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 (ADR) : M6

Orange plates :

Tunnel restriction code (ADR) : E

14.6.2. Transport by sea

Special provisions (IMDG) : 274
335

14.6.3. Air transport

Special provisions (IATA) : A97
A158

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 substance on the REACH candidate list

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

Other information : Shock is a trademark of FMC Corporation
FMC is a registered trademark of FMC Corporation.

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

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
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
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking
N	Dangerous for the environment

Xi	Irritant
Xn	Harmful

FDS FMC UE (Annexe II REACH)

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