

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

#### 1.1. Product identifier

Product form : Mixture  
Name : AURORA 40 WG  
Product code : 6002

#### 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 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409
Czech Republic	Toxikologické informační středisko	Na Bojišti 1 120 00 Praha 2	+420 224 919 293 +420 224 915 402
Denmark	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 Copenhagen NV	+45 82 12 12 12
Finland	Myrkytystietokeskus	P.O.B 790 (Tukholmankatu 17) HUS SF - 00029 Helsinki	+358 9 471 977
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	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166 (public, 8am - 10pm, 7/7)
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
Netherlands	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 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

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Country	Organisation/Company	Address	Emergency number
Slovenia	Poison Centre Division of Internal Medicine	University Clinical Centre Zaloska 7 1525 Ljubljana	+ 386 41 650 500
Spain	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
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	0844 892 0111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Adverse physicochemical, human health and environmental effects : May cause an allergic skin reaction  
Very toxic to aquatic life with long lasting effects.

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

Skin Sens. 1 H317

Aquatic Acute 1 H400

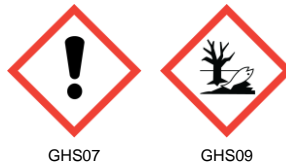
Aquatic Chronic 1 H410

Full text of classification categories and H statements : see section 16

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P273 - Avoid release to the environment  
P280 - Wear protective gloves, protective clothing, eye protection, face protection  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P391 - Collect spillage  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

EUH-statements :

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Carfentrazone-ethyl	(CAS No) 128639-02-1 (EC index no) 607-309-00-5	< 50	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
D-Glucopyranose, oligomers, decyl octyl glycosides	(CAS No) 68515-73-1 (EC no) 500-220-1 (REACH-no) 01-2119488530-36	< 5	Eye Dam. 1, H318

Full text of H-statements: see section 16

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### 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 you feel unwell, seek medical advice.
- 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 and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum)  
If irritation persists, consult an eye specialist.
- First-aid measures after ingestion : If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink  
Get medical advice/attention.

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

- Symptoms/injuries after skin contact : Exposure may produce an allergic reaction.

#### 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 (CO<sub>2</sub>)  
Water spray.

#### 5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : On combustion or on thermal decomposition (pyrolysis) releases :  
Carbon oxides (CO, CO<sub>2</sub>)  
Nitrogen oxides  
Hydrogen fluoride  
Hydrochloric acid.

#### 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 : Avoid creating or spreading dust  
Spray with water  
Recover the product with absorbent material.
- Methods for cleaning up : Liquid spill: take up in sand, earth, vermiculite  
Neutralize non-recoverable product with :  
a solution of caustic or soda ash, and an appropriate alcohol (methanol, ethanol or isopropanol)  
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.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling	: Dust extraction (suction) Avoid contact with skin and eyes.
Hygiene measures	: Always wash hands after handling the product Always take a shower after work Separate working clothes from town clothes. Launder separately Do not drink, eat or smoke in the workplace.

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

Storage conditions	: Keep container tightly closed Store in dry, cool, well-ventilated area Keep away from ignition sources Keep out of the reach of children Keep away from food, drink and animal feeding stuffs.
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	: Nitrile-rubber protective gloves Neoprene protective gloves
Eye protection	: If dust are formed : Safety glasses with side shields
Skin and body protection	: Handling large quantities of product: Impermeable suit (Hypalon, Tyvek, Saranex, PVC...) Safety foot-wear
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	: Solid
Colour	: white Beige.
Odour	: Faint chemical.
Odour threshold	: Not applicable
pH	: 7,5 (22 °C) (Aqueous solution 5.44%)
Relative evaporation rate (butyl acetate=1)	: Not applicable
Melting point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: Not applicable
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: Not applicable
Relative density	: 0,55
Solubility	: No data available
Log Pow	: Not applicable
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing material.

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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, under normal conditions of use.

### 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

Heat.

### 10.5. Incompatible materials

None to our knowledge.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

AURORA 40 WG	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat	> 5,72 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 : May cause an allergic skin reaction.

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

Carfentrazone-ethyl :  
No mutagenic effects were noted

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

Carfentrazone-ethyl :  
No carcinogenic effects reported

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

Carfentrazone-ethyl :  
Fertility and development toxicity tests did not reveal any 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)

Carfentrazone-ethyl (128639-02-1)	
NOAEL, rat	50 ppm (3 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.

AURORA 40 WG	
ErC50 (algae)	67 µg/l/72h
NOEC chronic algae	0,0063 mg/l

### 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.

### 12.3. Bioaccumulative potential

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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.

### 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

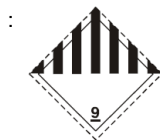
UN-No. (ADR) : 3077  
UN-No. (IMDG) : 3077  
UN-No. (IATA) : 3077

### 14.2. UN proper shipping name

Transport document description : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Carfentrazone-ethyl(128639-02-1)), 9, III, (E)

### 14.3. Transport hazard class(es)

Transport hazard class(es) : 9  
Hazard labels : 9



### 14.4. Packing group

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

### 14.5. Environmental hazards

Dangerous for the environment : Yes  
Marine pollutant : Yes  
Other information :



Dangerous for the environment

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : M7  
Hazard identification number (Kemler No.) : 90

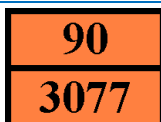
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Orange plates

:



Tunnel restriction code (ADR)

: E

### - Transport by sea

Special provisions (IMDG)

: 274, 335, 966, 967

### - Air transport

Special provisions (IATA)

: A97, A158, A179, A197

## 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 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) 2-3.

Other information

: Aurora and FMC are registered trademarks of FMC Corporation.

Full text of H- and EUH-statements:

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
Skin Sens. 1	Sensitisation — Skin, Category 1
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
EUH401	To avoid risks to human health and the environment, comply with the instructions for use

*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*