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FIXOR

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

1.1 Product identifier

Trade name : FIXOR

Authorisation number : MAPP17428/PCS052052

Active substance : 1-naphthylacetic acid (9.7 %)
EC No.: 201-705-8
CAS No.: 86-87-3
IUPAC Name: 1-naphthylacetic acid

Substance No. : 300000000610

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

Use of the Substance/Mixture : Plant growth regulator for professional use.

1.3 Details of the supplier of the safety data sheet

Address : Belcrop BV
Tiensestraat 300
3400 Landen
Belgium

Telephone : +32 11 59 83 60
Telefax : +32 11 59 83 61
E-mail address Contact Point : info@belcrop.be

1.4 Emergency telephone number

Please call the local emergency number.
For IE only: National Poisons Information Centre (Beaumont Hospital): 01 809 2166 (8 AM - 10 PM)
Emergency number in Belgium (24h/24, 7d/7): +32 11 69 79 80

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Serious eye damage/eye irritation, Category 1
Reproductive toxicity, Category 2

H318: Causes serious eye damage.
H361d: Suspected of damaging the unborn child.

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2.2 Label elements

Labelling (Regulation (EC) No. 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.
H361d Suspected of damaging the unborn child.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements : P280 Wear protective gloves/protective clothing/eye protection
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
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.

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS No. EC No. Index No. Registration No.	Classification (Regulation (EC) No. 1272/2008) M-Factor/SCL/ATE	Conc. [%]
1-naphthylacetic acid	86-87-3 201-705-8 - -	Acute Tox. 4; H302 Eye Dam. 1; H318 Repr. 2; H361d	9.7
Sodium hydroxide	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27	Skin Corr. 1A; H314 SCL Skin Corr. 1A; H314: >= 5 % SCL Skin Corr. 1B; H314: 2 - < 5 % SCL Skin Irrit. 2; H315: 0.5 - < 2 % SCL Eye Irrit. 2; H319: 0.5 - < 2 %	<= 2.5
Substances with a workplace exposure limit			
Sodium hydroxide	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27	Skin Corr. 1A; H314 SCL Skin Corr. 1A; H314: >= 5 % SCL Skin Corr. 1B; H314: 2 - < 5 % SCL Skin Irrit. 2; H315: 0.5 - < 2 % SCL Eye Irrit. 2; H319: 0.5 - < 2 %	<= 2.5

For the full text of the hazard statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Show this safety data sheet to the doctor in attendance.
- If inhaled: : Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or a doctor.
- In case of skin contact: : Take off contaminated clothing.
Wash with plenty of water.
If skin irritation occurs: Get medical advice/attention.
Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before reuse.
- In case of eye contact: : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

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If swallowed: : Rinse mouth.
Call a POISON CENTER or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : For specialist advice physicians should contact the poisons information service.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water
Carbon dioxide (CO₂)
Dry powder
Polyvalent foam

Unsuitable extinguishing media : Water spray jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Fire will produce dense black smoke containing hazardous combustion products (see Section 10).
Exposure to decomposition products may be a hazard to health.
Do not use a solid water stream as it may scatter and spread fire.

5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Other information : Standard procedure for chemical fires.
In the event of fire and/or explosion do not breathe fumes.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).
Ensure adequate ventilation.

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Refer to protective measures listed in Section 7 and 8.

6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage.
Prevent product from entering drains.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.
Shovel into suitable container for disposal.
Clean contaminated floors and objects thoroughly while observing environmental regulations.

6.4 Reference to other sections

See Section 8 for exposure controls/personal protection. See Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Handle with care.
Take care to avoid waste and spillage when weighing, loading and mixing the product.
Smoking, eating and drinking should be prohibited in the application area.
Never mix concentrates directly.
Avoid inhalation, ingestion and contact with skin and eyes.
Avoid formation of dust and aerosols.
For personal protection see Section 8.
Avoid exceeding of the given occupational exposure limits (see Section 8).

Advice on protection against fire and explosion : Use explosion-proof equipment.
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature.
Store in original container.
Keep in a dry, cool and well-ventilated place.
To maintain product quality, do not store in heat or direct sunlight.
Keep away from food, drink and animal feeding stuffs.
Keep out of reach of children.

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7.3 Specific end use(s)

See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Component	CAS No.	Form of exposure	Value type	Control parameters	Basis
Sodium hydroxide	1310-73-2	Not specified	STEL	2 mg/m ³	GB EH40
Sodium hydroxide	1310-73-2	Not specified	STEL	2 mg/m ³	IE OEL

8.2 Exposure controls

Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
Recommended Filter type:
ABEK
- : In the case of dust or aerosol formation use respirator with an approved filter.
Recommended Filter type:
P2FFP2
- Hand protection : Protective gloves complying with EN 374.
- Eye protection : Safety glasses with side-shields conforming to EN 166.
- Skin and body protection : Long-sleeved clothing.
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Store personal protection equipment in a clean location away from the work area.
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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Keep away from food and drink.
Wash hands before eating, drinking, or smoking.

Protective measures : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.
Always have on hand a first-aid kit, together with proper instructions.

Environmental exposure controls

General advice : Discharge into the environment must be avoided.
Prevent further leakage or spillage.
Prevent product from entering drains.
Local authorities should be advised if significant spillages cannot be contained.

Soil : Avoid subsoil penetration.

Water : Do not flush into surface water or sanitary sewer system.
Retain and dispose of contaminated wash water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : Transparent
Light yellow

Odour : Not significant

Flash point : > 100 °C

Ignition temperature : No data available

Lower explosion limit : No data available

Upper explosion limit : No data available

Flammability : The product is not highly flammable.

Decomposition temperature : No data available

pH : 7.87
(undiluted)
7.00 - 7.20
(1 % dilution)

Melting point/melting range : Not applicable

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Boiling point/boiling range	: No data available
Vapour pressure	: No data available
Density	: 1.03 g/cm ³
Relative density	: No data available
Solubility in water	: No data available
Partition coefficient n-octanol/water	: Log Pow: 2.24 at pH 3 (Active substance) Log Pow: -0.02 at pH 7 (Active substance) Log Pow: 0.32 at pH 9 (Active substance)
Kinematic viscosity	: 2.70 - 3.75 mm ² /s at 20 °C
Relative vapour density	: Not applicable
Particle size	: No data available

9.2 Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

None.

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10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours.
Other hazardous decomposition products may be formed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute toxicity

Component

Acute oral toxicity
1-naphthylacetic acid : LD50 Oral: 762 mg/kg
86-87-3 Species: Rat
Remarks: Single dose

Component

Acute inhalation toxicity
1-naphthylacetic acid : LC50: 0.45 mg/l
86-87-3 Exposure time: 4 h
Species: Rat

Component

Acute dermal toxicity
1-naphthylacetic acid : LD50 Dermal: > 2,000 mg/kg
86-87-3 Species: Rat
Remarks: 24 h

Skin corrosion/irritation

Component

Skin irritation
1-naphthylacetic acid : Species: Rabbit
86-87-3 Results: No skin irritation
Exposure time: 4 h

Serious eye damage/eye irritation

Component

Eye irritation
1-naphthylacetic acid : Species: Rabbit
86-87-3 Results: Eye irritation
Remarks: Single dose

Respiratory or skin sensitization

Component

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Sensitisation
1-naphthylacetic acid : Species: Mouse
86-87-3 Results: Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Component

Genotoxicity in vitro
1-naphthylacetic acid : Test type: Multiple in vitro systems
86-87-3 Results: The substance is unlikely to be genotoxic

Genotoxicity in vivo
1-naphthylacetic acid : Test type: In vivo assay
86-87-3 Results: The substance is unlikely to be genotoxic

Carcinogenicity

1-naphthylacetic acid : Species: Rat
86-87-3 Exposure time: 2 yr
NOAEL: 39.17 mg/kg bw/day
Results: No carcinogenic properties.

Reproductive toxicity

Component

Effects on fertility

1-naphthylacetic acid : Species: Rat
86-87-3 General toxicity parent: NOAEL: 62 mg/kg bw/day
General toxicity F1: NOAEL: 188 mg/kg bw/day
General toxicity F2: NOAEL: 62 mg/kg bw/day

Effects on foetal development

1-naphthylacetic acid : Species: Rat
86-87-3 General Toxicity Maternal: NOAEL: 150 mg/kg bw/day
Developmental Toxicity: NOAEL: 15 mg/kg bw/day
Remarks: Tested with 1-NAA-Na

Species: Rabbit
General Toxicity Maternal: NOAEL: 100 mg/kg bw/day
Developmental Toxicity: LOAEL: 30 mg/kg bw/day
Remarks: Tested with 1-NAA-Na

Specific target organ toxicity - single exposure

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1-naphthylacetic acid : Remarks: No data available
86-87-3

Specific target organ toxicity - repeated exposure

Component

1-naphthylacetic acid : Remarks: No data available
86-87-3

Aspiration hazard

Component

1-naphthylacetic acid : No data available
86-87-3

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information

Component

1-naphthylacetic acid
86-87-3

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Component

Toxicity to fish

1-naphthylacetic acid : LC50: > 56 mg/l
86-87-3 Exposure time: 96 h
Species: Cyprinus carpio (Carp)

LC50: < 100 mg/l
Exposure time: 96 h

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Species: Cyprinus carpio (Carp)

Component

Toxicity to daphnia and other aquatic invertebrates.

1-naphthylacetic acid : EC50: > 56 mg/l
86-87-3 Exposure time: 48 h
Species: Daphnia magna (Water flea)

EC50: < 100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Component

Toxicity to algae and aquatic plants

1-naphthylacetic acid : ErC50: 26.62 mg/l
86-87-3 Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (Green algae)

EC50: 5.09 mg/l
Exposure time: 14 d
Species: Lemna gibba G3

12.2 Persistence and degradability

1-naphthylacetic acid : Remarks: The substance is considered not readily
86-87-3 biodegradable.

Component

Stability in soil

1-naphthylacetic acid : Percentage dissipation: 50 % (DT50: 1.85 d)
86-87-3

12.3 Bioaccumulative potential

Product

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Component

Bioaccumulation

1-naphthylacetic acid : Remarks: Bioaccumulation is unlikely.
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Component

Partition coefficient n-octanol/water

<u>1-naphthylacetic acid</u> 86-87-3	:	Log Pow: 2.24 pH: 3
	:	Log Pow: -0.02 pH: 7
		Log Pow: 0.32 pH: 9

12.4 Mobility in soil

<u>1-naphthylacetic acid</u> 86-87-3	:	Koc: 61.2 Koc unit: mL/g
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12.5 Results of PBT and vPvB assessment

Product

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product

Additional ecological information : No additional information available.

Component

Additional ecological information

<u>1-naphthylacetic acid</u> 86-87-3	:	No additional information available.
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Dispose of in accordance with the European Directives on waste and hazardous waste.
Dispose of in accordance with local regulations.
The product should not be allowed to enter drains, water courses or the soil.
- Contaminated packaging : Triple rinse containers.
Do not re-use empty containers.
Store containers and offer for recycling of material when in accordance with the local regulations.

SECTION 14: Transport information

14.1 UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class(es)

Not classified as dangerous in the meaning of transport regulations.

14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

- Major Accident Hazard Legislation : Legislation on the control of major-accident hazards involving dangerous substances
/

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15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

Full text of hazard statements referred to under Section 2 and 3.

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H361d	Suspected of damaging the unborn child.

Full text of other abbreviations

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road; ATE – Acute toxicity estimate; BCF - Bioconcentration factor; bw – Body weight; EC number – European Community number; ECx – Concentration associated with x % response; EmS – Emergency Schedule; ErCx – Concentration associated with x % growth rate response; GLP – Good Laboratory Practice; IATA – International Air Transport Association; IC50 – Half maximal inhibitory concentration; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; LC50 – Lethal Concentration to 50 % of a test population; LD50 – Lethal Dose to 50 % of a test population (Median Lethal Dose); M-factor – Multiplying factor; N.O.S. – Not Otherwise Specified; NO(A)EC – No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; OECD – Organization for Economic Co-operation and Development; OEL – Occupational exposure limit; PBT – Persistent, Bioaccumulative and Toxic substance; SCL – Specific Concentration Limit; TWA – Time-weighted average; UFI – Unique formula identifier; UN – United Nations; vPvB – Very Persistent and Very Bioaccumulative

Other information

Other information : Update of section 1.4

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.