

# SAFETY DATA SHEET

## Fixor

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

#### 1.1 Product identifier

Name of the substance: Fixor  
Code: MAPP17428 / PCS 05252  
Formulation type: SL (soluble concentrate)  
Concentration: 100 g/L (9.67% w/w)  
Active substance: 1-naphthylacetic acid (1-NAA)  
IUPAC-name: 1-naphthylacetic acid  
Identification number: EG 201-705-8  
RRN: No registration number is available for this substance, in accordance with the provisions of Article 15 of Regulation (EC) No 1907/2006

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

identified uses: plant growth regulator for professional use

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



Belcrop NV  
Tiensestraat 300  
3400 Landen  
Belgium

Tel.: +32 11 59 83 60  
Fax: +32 11 59 83 61

Email: [info@belcrop.be](mailto:info@belcrop.be)

#### 1.4 Emergency telephone number

Please call the local emergency number  
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 according to Regulation (EC) No 1272/2008

Eye Dam. 1, Repr. 2  
H318, H361d

For full text of Hazard-statements see section 16.

#### 2.2 Label elements

##### Label in accordance with Regulation (EC) No 1272/2008

##### Hazard pictogram



### Signal word

Danger

### hazard statement

H318: Causes serious eye damage.

H361d: Suspected of damaging the unborn child.

EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.

### precautionary statement

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**

The active substance does not fulfill the criteria of a persistent, bioaccumulative and toxic (PBT) substance, nor of a very persistent and very bioaccumulative (vPvB) substance, as outlined in Annex XIII of Regulation (EC) No 1907/2006.

## **Section 3 : Composition/information on ingredients**

### **3.2 Mixtures**

Name	Identification number	RRN	% (% by weight)	Classification according to Regulation (EC) No 1272/2008
1-naphthylacetic acid (1-NAA)	EG 201-705-8	not available	100 g/L (9.67% w/w)	Acute Tox. 4, Eye Dam. 1 , Repr. 2 H302, H318, H361d
Sodium hydroxide	EG 215-185-5	01-2119457892-27	< 2.5% w/w	Met. Corr. 1, Skin Corr. 1A H290, H314

For full text of Hazard-statements see section 16.

## **Section 4: First aid measures**

### **4.1 Description of first aid measures**

If INHALED:

Fresh air, rest. In case of symptoms, seek medical attention and show the label or packaging.

In case of contact with SKIN:

Rinse the skin with plenty of water or take a shower for 15 minutes. Meanwhile, remove contaminated clothing and shoes. In case of symptoms, seek medical attention and show the label or packaging.

In case of contact with EYES:

Rinse thoroughly with water for 10 minutes. Rinse AWAY from the non-affected eye. If wearing contact lenses: if easy to remove, first remove the lenses, then rinse. Consult immediately an oculist and show the label or packaging.

If SWALLOWED:

Rinse the mouth. Call the poison center and ask whether drinking of a solution of activated charcoal in water is recommended. Consult a doctor immediately and show the label or packaging.

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

No data available in humans.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

Notes to physician:

Prehospital: symptomatic treatment.

Contact the local poison center (see section 1.4) for further treatment in the hospital.

### **Section 5 : Fire fighting measures**

#### **5.1 Extinguishing media**

Suitable extinguishing media: chemical powder, water spray, CO<sub>2</sub>, polyvalent foam.

Unsuitable extinguishing media: Water with full jet

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

The product contains flammable organic substances. In case of a fire, a thick black smoke containing hazardous products of combustion will be generated (see section 10).

Exposure to decomposition products can be harmful to one's health.

#### **5.3 Advice for fire-fighters**

Self-contained breathing apparatus and full protective clothing (boots, overall, gloves, eye and face protection). Avoid discharge of extinguish water into sewer or watercourse.

### **Section 6 : Accidental release measures**

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

See section 8

#### **6.2 Environmental precautions**

Prevent the product from entering into soil, sewers, surface or ground water. If necessary, isolate the contaminated area. First remove spillage and accidental leaks (see section 6.3). Then rinse the contaminated area with water. Do not allow residues to enter into sewer and surface water. Dispose contaminated water according to local legislation. Inform the authorities if product pollutes the environment.

#### **6.3 Methods and material for containment and cleaning up**

##### **6.3.1 Containment of a spill**

If applicable, cover spillage with absorbing material (sand, clay, diatomite, universal binders, absorbing grain).

##### **6.3.2 Clean-up of a spill**

Spills shall be contained by means of absorbent material and a shovel. The collected products shall be disposed of in re-usable barrels or barrels for waste removal. As soon as the substance has been removed, thoroughly clean up the floor and any object that has been in contact with the substance in compliance with the environmental prescriptions.

##### **6.3.3 Additional information**

No additional information

#### **6.4 Reference to other sections**

See section 1 contact information

See section 7 for handling and storage

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

#### 7.1.1 Protective measurements

Work under local exhaust/ventilation. Observe normal industrial and hygiene standards. Wear personnel protective clothing. Avoid contact with skin and eyes. Avoid forming of aerosol or dust. Wash hands after use. Do not discharge product into sewer. Keep away from source of ignition.

#### 7.1.2 Advice on general occupational hygiene

When using, do not eat, drink or smoke. Clean used material. Wash hands after each use. Wash contaminated clothing after use. Remove contaminated clothing and protective equipment before entering eating areas

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

Store in closed packaging in a dry, well ventilated area. Store in original packaging. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. See also section 10.

### 7.3 Specific end use(s)

See section 1.2.

## Section 8 : Exposure controls/personal protection

### 8.1 Control parameters

#### 8.1.1 Occupational exposure limit values

Sodium hydroxide:  
Limit value (short term): 2 mg/m<sup>3</sup>

#### 8.1.2 Information on currently recommended monitoring procedures

Not known

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

See section 7 and 8.1.1.

#### 8.2.2 Individual protection measures, such as personal protective equipment

##### 8.2.2.1 Eye / face protection

Wear safety goggles, with side-protection.

##### 8.2.2.2 Skin protection

###### 8.2.2.2.1 Hand protection

Wear chemical protective gloves (EN374).

###### 8.2.2.2.2 other

Wear suitable work clothes. (Coverall with full body protection)

##### 8.2.2.3 Respiratory protection

Use always in a well ventilated area.

Only if applicable:

Gas, vapours: gas filter: semi-facial mask with ABEK filter.

Dust, mist, fumes: dust mask : P2FFP2

### 8.2.3 Environmental exposure controls

See section 6: Accidental release measures

See section 7: storage and handling

See section 13: Disposal considerations

## Section 9 : Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

	Endpoint (unit)
a) Appearance	transparant liquid
b) Odour	no discernible odour
c) Odour threshold	not relevant
d) pH	7.0 - 7.2 (1% solution) 7.8 - 8.0 (neat formulation)
e) Melting point/freezing point	< 0 °C (lowest tested temperature)
f) Initial boiling point and boiling range	no data available
g) Flash point	> 100 °C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	not relevant
j) Upper/lower flammability or explosive limits	not applicable
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	1.03 g/ml
n) Solubility(ies)	the composition remains stable under dilute conditions
o) Partition coefficient: n-octanol/water	log Pow = 2.24 @ pH3; -0.02 @ pH7; 0.32 @ pH 9 (active substance (technical))
p) Auto-ignition temperature	not relevant
q) Decomposition temperature	not relevant
r) Viscosity	2.70 - 3.75 mPa.s @ 20°C
s) Explosive properties	not explosive
t) Oxidising properties.	no oxidising properties

### 9.2 Other information

No additional information

## Section 10 : Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions of handling and storage.

### 10.2 Chemical stability

Stable under normal environmental temperatures (between 0°C and 40°C). See also section 7.2.

### 10.3 Possibility of hazardous reactions

No specific data known.

### 10.4 Conditions to avoid

No specific data known.

### 10.5 Incompatible materials

No specific data known.

## 10.6 Hazardous decomposition products

Combustion or thermal decomposition produces toxic and irritating vapours. See section 5.2

## Section 11 : Toxicological information

### 11.1 Information on toxicological effects

	endpoint	duration	species	tested on
a) acute toxicity	oral: LD50 = 933 mg/kg bw/day (LD50 = 762 mg/kg bw/day in terms of 1-NAA (acid form))	single dose	rat	1-NAA-Na
	dermal: LD50 > 2000 mg/kg bw	24h exposure	rat	active substance (technical)
	inhalation: The acute inhalation of 1-NAA was investigated at the limit concentration of 0.45 mg/l. No death occurred at this dose --> LC50 > 0.45 mg/l - 1-NAA is of low toxicity after inhalation acute exposure.	4h exposure	rat	active substance (technical)
b) skin corrosion/irritation	not irritant	4 h exposure	rabbit	active substance (technical)
c) serious eye damage/irritation	irritant	single dose	rabbit	active substance (technical)
d) respiratory or skin sensitization	not sensitising	72h	mouse	active substance (technical)
e) germ cell mutagenicity	no indication of genotoxicity	-	multiple in vitro and in vivo test systems	active substance (technical)
f) carcinogenicity	No carcinogenic properties	2 years	rat	active substance (technical)
g) reproductive toxicity	NOAEL = 205 mg/kg bw/day	two generation studies	rat	active substance (technical)
h) STOT-single exposure	no data available			
i) STOT-repeated exposure	no data available			
j) aspiration hazard	no data available			

## Section 12 : Ecological information

### 12.1 Toxicity

	endpoint	duration	species	tested on
Acute toxicity fish	56 < LC50 < 100 mg/l	96 h	<i>Cyprinus carpio</i>	active substance (technical)
Acute toxicity invertebrates	56 < EC50 < 100 mg/l	48 h	<i>Daphnia magna</i>	active substance (technical)
Algae	EbC50 = 18.05 mg/l ErC50 = 26.62 mg/l (expressed in terms of 1-NAA-acid form)	72h static	<i>Pseudokirchneriella subcapitata</i>	1-NAA-Na

Aquatic plants	EC50 (fronds) = 5.09 mg/L	14 d	<i>lemna gibba</i> G3	active substance (technical)
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## 12.2 Persistence and degradability

The active substance 1-NAA is rapidly degradable.

## 12.3 Bioaccumulative potential

log Pow = 2.24 @ pH3; -0.02 @ pH7; 0.32 @ pH 9 (active substance (technical))

## 12.4 Mobility in soil

Koc: 46.12 - 138.03 mL/g (active substance (technical))

## 12.5 Results of PBT and vPvB assessment

The active substance does not fulfill the criteria of a persistent, bioaccumulative and toxic (PBT) substance, nor of a very persistent and very bioaccumulative (vPvB) substance, as outlined in Annex XIII of Regulation (EC) No 1907/2006.

## 12.6 Other adverse effects

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# Section 13 : Disposal considerations

## 13.1 Waste treatment methods

Product waste: prevent spreading. To be disposed of in compliance with local and national prescriptions.

Polluted packages: Do not re-use empty packages. If required, rinse 3 times. To be disposed of in compliance with local and national prescriptions.

# Section 14: Transport information

	ADR classification	IMDG classification	IATA classification
<b>14.1 UN number</b>	/	/	/
<b>14.2 UN proper shipping name</b>	/	/	/
<b>14.3 Transport hazard class(es)</b>	/	/	/
<b>14.4 Packing group</b>	/	/	/
<b>14.5 Environmental hazards</b>	no	no	no
<b>14.6 Special precautions for user</b>	Symbols: / Tunnel code: /	Symbols: /	Symbols: /
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable for road transport	Not applicable (not transported as bulk)	Not applicable for air transport

# Section 15 : Regulatory information

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

SEVESO:

- SEVESO category: /
- Named dangerous substances: /

## **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**

### **Relevant H-phrases**

H318: Causes serious eye damage.  
H361d: Suspected of damaging the unborn child.  
H290: May be corrosive to metals.  
H314: Causes severe skin burns.  
H302: Harmful if swallowed.

### **List of abbreviations and acronyms**

RRN: REACh registration number

### **Changes to the previous version of safety data sheet.**

Section 1, 1.3: Updated

Section 2, 2.1: Removal of Classification according to Directive 67/548/EEC or 1999/45/EC

**The information presented in this SDS is based on the current knowledge of the product and is derived from the existing literature. It is given in good faith and it only illustrates the aspect of security. This SDS is in addition with our information relating to the use of the formulation but in no case replaces it.**

**The users must be aware of the necessary precautions to take at the time of use or handling of this product. Consequently, the company can in, no case, be held responsible for damage which results, directly or indirectly, from the use of these data.**

*This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008, Regulation (EU) No 453/2010 and Regulation (EU) No 2015/830.*