



## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Trade name : **Nuprid 600 FS**

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

Use : Plant protection agent

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

Nufarm GmbH & Co KG  
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A-4021 Linz  
Austria  
Telephone: +43/732/6918-4010  
Telefax: +43/732/6918-64010  
E-mail address: Johann.Mayr@at.nufarm.com

### 1.4. Emergency telephone number

+43/732/6914-2466 (Linz/Austria production site)

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

EEC/99/45 : Xn R22 - Harmful if swallowed.  
N R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 2.2. Label elements

according directive 1999/45/EG

Pictogram:





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- R22 - Harmful if swallowed.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S 2 - 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.  
S57 - Use appropriate container to avoid environmental contamination.  
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.

### 2.3. Other hazards

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Mixture of active ingredient and additives  
Imidacloprid 600 g/l

### 3.2. Mixtures

#### Components:

#### Imidacloprid

CAS-No.: 138261-41-3  
EINECS-No. / ELINCS No.: 428-040-8  
REACH No.:  
Concentration: 47,6 % (w/w)

#### Classification:

EG_1272/08 :	AcuteTox.4	H302 - Harmful if swallowed.
	AquaticAcute1	H400 - Very toxic to aquatic life.
	AquaticChronic1	H410 - Very toxic to aquatic life with long lasting effects.
EEC/67/548 :	Xn	R22 - Harmful if swallowed.
	N	R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

**General advice** : In case of unconsciousness place and transport person in the recovery position. Move out of dangerous area. Take off all



	contaminated clothing immediately. Keep in mind to protection yourself.
Eye contact	: Immediately flush eye(s) with plenty of water. Call a physician immediately.
Skin contact	: Wash off immediately with soap and plenty of water. Call a physician immediately.
Inhalation	: Call a physician immediately. Move the victim to fresh air.
Ingestion	: Do NOT induce vomiting. Rinse mouth. Call a physician immediately.

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

Symptoms : no data available

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

Treatment : Treat symptomatically. Monitoring of respiratory and cardiac functions. If ingested, irrigate the stomach using activated charcoal in addition.

### 5. FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray, Dry powder, Sand, Foam, Carbon dioxide (CO<sub>2</sub>)

Extinguishing media which shall not be used for safety reasons : High volume water jet

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

Specific hazards during firefighting : In the event of fire (NO<sub>x</sub>, CO<sub>x</sub>, HCl, Cl<sub>2</sub>, HCN) may be formed.

#### 5.3. Advice for firefighters

Special protective equipment for firefighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

Further Information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.



## 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. (see Chapter 8)

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

### 6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Use mechanical handling equipment.

Additional advice : Never return spills in original containers for re-use.

### 6.4. Reference to other sections

see Chapter 13

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Safe handling advice : Wear personal protective equipment. Keep out of the reach of children.

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

Requirements for storage areas and containers : Keep tightly closed in a dry, cool and well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feeding stuffs.

#### Storage stability

Storage temperature : > 0 °C

### 7.3. Specific end use(s)

none

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters



Components with workplace control parameters  
no data available

## 8.2. Exposure controls

### Personal protective equipment

- Respiratory protection : Breathing apparatus needed only when aerosol or mist is formed.
- Hand protection : Protective gloves
- Eye protection : Tightly fitting safety goggles
- Skin and body protection : protective suit
- Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.
- Protective measures : Avoid contact with skin, eyes and clothing. Keep working clothes separately.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### Appearance

- Physical state : liquid
- Form : Flowable concentrate for seed treatment (FS)
- Colour : red
- Odour : solvent-like
- Melting point/range : no data available
- Boiling point/boiling range : no data available
- Flash point : does not flash
- Ignition temperature : 398 °C
- Upper explosion limit : none
- Lower explosion limit : none



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Vapour pressure	:	4E-10 Pa at 20 °C
Density	:	1,26 g/cm <sup>3</sup> at 20 °C
Water solubility	:	610,0 g/l (Imidacloprid)
pH	:	7 at 10 g/l
Partition coefficient: n-octanol/water	:	log POW = 0,57 at 21 °C  (Imidacloprid)
Dissociation constant	:	no data available
Viscosity, dynamic	:	450 - 11.400 mPa.s at 20 °C Method: OECD 114

## 9.2. Other information

none

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

no data available

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

no data available

### 10.4. Conditions to avoid



No decomposition if stored and applied as directed.

#### 10.5. Incompatible materials to avoid

Strong oxidizing agents

#### 10.6. Hazardous decomposition products

no data available

### 11. TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

- Acute oral toxicity : LD50 rat  
Dose: ca. 1.139 mg/kg
- Acute dermal toxicity : LD50 rat  
Dose: > 5.000 mg/kg  
Method: OECD Test Guideline 402
- Acute inhalation toxicity : LC50 rat  
Exposure time: 4 h  
Dose: > 1,68 mg/l  
Method: OECD Test Guideline 403  
Remarks: highest experimental achievable concentration, no mortality
- Skin irritation : rabbit  
Classification: No skin irritation  
Result: No skin irritation  
Method: OECD Test Guideline 404
- Eye irritation : rabbit  
Classification: No eye irritation  
Result: No eye irritation  
Method: OECD Test Guideline 405
- Sensitisation : Maximisation Test guinea pig  
Classification: Did not cause sensitization.  
Result: Did not cause sensitization.  
Method: OECD Test Guideline 406



## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

- Toxicity to fish : LC50 *Oncorhynchus mykiss* (rainbow trout)  
Dose: > 47,4 mg/l  
Testing period: 96 h
- NOEC *Oncorhynchus mykiss* (rainbow trout)  
Dose: 100 mg/l
- Toxicity to daphnia : EC50 *Daphnia*  
Dose: > 248,6 mg/l  
Testing period: 48 h
- NOEC *Chironomus riparius*  
Dose: 0,012 mg/l  
Testing period: 28 d
- NOEC *Chironomus riparius*  
Dose: 0,041 mg/l
- Toxicity to algae : EbC50 *Pseudokirchneriella subcapitata* (green algae)  
Dose: 9,7 mg/l  
Exposure time: 72 h
- ErC50 *Pseudokirchneriella subcapitata* (green algae)  
Dose: 754,4 mg/l  
Exposure time: 72 h
- NOEC *Pseudokirchneriella subcapitata* (green algae)  
Dose: < 0,819 mg/l

### 12.2. Persistence and degradability

- Biodegradability : Not readily biodegradable.
- Stability in soil : DT50: 40 - 190 d
- Stability in water : DT50: 31 d  
at pH 5 - 9





### 12.3. Potential bioaccumulation

Bioaccumulation : Does not bioaccumulate.

### 12.4. Mobility in soil

Koc = 109 - 411 (Imidacloprid)

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Other adverse effects

none

## 13. DISPOSAL CONSIDERATIONS

According to European Directive 2000/532/EC as amended :

Waste Code : 02 01 08 (agrochemical waste containing dangerous substances)

### 13.1. Waste treatment methods

Product : In accordance with local and national regulations.

Contaminated packaging : Do not re-use empty containers.

Dispose empty and triple rinsed container within a local disposing system according to EC directive 94/62/EC

## 14. TRANSPORT INFORMATION

### 14.1. UN number

UN3082

### 14.2. Proper shipping name

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.\*(Imidacloprid)



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**14.3. Transport hazard class(es)**

ADR/RID :  
Class : 9

IMDG :  
Class : 9

IATA-DGR :  
Class : 9

**14.4. Packaging group**

ADR/RID : III

IMDG : III

IATA-DGR : III

**14.5. Environmental hazards**

**IMDG**  
Marine Pollutant : MP

**14.6. Special precautions for user**

none

**15. REGULATORY INFORMATION**

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

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.

**15.2. Chemical Safety Assessment**

none



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## 16. OTHER INFORMATION

Print Date : 2014/02/13

The date format YYYY/MM/DD is used according to ISO 8601.  
(Alterations are indicated in the left hand margin by: || )

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.

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