



# MATERIAL SAFETY DATA SHEET

Page : 1

Version nr : 1

Date : 4 / 1 / 2011

Supersedes : 0 / 0 / 0

## FINALSAN PLUS

**C0282-C0264-UK**

### 1. Identification of the product and the company

<b>Name</b>	<b>FINALSAN PLUS.</b>
<b>Chemical description active ingredient(s)</b>	: 1. Nonanoic acid (IUPAC) 2. Maleic hydrazide: 1-2, dihydropyridazine-3,6-dione (IUPAC)
<b>Chemical formula</b>	: 1. C <sub>9</sub> H <sub>18</sub> O <sub>2</sub> 2. C <sub>4</sub> H <sub>4</sub> N <sub>2</sub> O <sub>2</sub>
<b>Chemical family</b>	: 1. Organic acids 2. Pyridazine
<b>GCPF code</b>	: -
<b>Company identification</b>	: CERTIS UK 1b Mills Way Boscombe Down Business Park Amesbury Wiltshire SP4 7RX United Kingdom  Telephone +44(0)1980 676500 Fax +44(0)1980 626555 E-mail: certis@certiseurope.co.uk
<b>Use</b>	: Agriculture ( Herbicide )
<b>Anti-poison center - Tel.</b>	: For advice on medical emergencies, fires, spillages or chemical hazards ONLY - phone +44(0)870 190 6777. For further advice for medical professionals - The National Poisons Information Service: Tel: +44(0)870 600 6266 (UK only) or Dublin Tel: 00353 1379 964/379966.  For further advice for veterinary surgeons: +44(0)20 7635 9195.
<b>Print date</b>	: 7 / 4 / 2011

### 2. Hazards identification

<b>Physical/chemical hazards</b>	: The data available does not support any physical or chemical hazard.
<b>Human health hazards</b>	: This product is not classified as hazardous.
<b>Environmental hazard</b>	: Harmful to aquatic organisms.

### 3. Information on ingredients

This product is not hazardous.

<b>Substance / preparation</b>	: Preparation
<b>Other information</b>	: See chapter 16 for full text of R phrases.
<b>Composition</b>	: Below mentioned is (are) the active ingredient(s) in the formulation. Herbicide with pelargonic acid-contained as ammonium salt - contains growing modulator maleic acid.

Substance name		Value(s)	CAS nr	EINECS nr	EC index		Classification
Nonanoic acid	:	186.7 G/L	112-05-0	203-931-2	607-197-00-8	-----	C; R34
Maleic hydrazide	:	30.3 G/L	123-33-1	204-619-9	-	-----	

### 4. First aid measures

<b>Effects and symptoms</b>	: No symptoms known.
<b>First-aid measures</b>	
<b>First aid general</b>	: In the event of any complaints or symptoms, avoid further exposure. Treat symptomatically. If you feel unwell seek medical advice (show the label where possible).
<b>- Inhalation</b>	: Remove victim to fresh air.

#### CERTIS UK

1b Mills Way Boscombe Down Business Park Amesbury Wiltshire SP4 7RX United Kingdom

Telephone +44(0)1980 676500

Fax +44(0)1980 626555

E-mail: certis@certiseurope.co.uk

**FINALSAN PLUS**
**C0282-C0264-UK**
**4. First aid measures (continued)**

- Ingestion : Seek medical attention if ill effect develops.
- Skin contact : Wash skin with water. Obtain medical attention when necessary.
- Eye contact : Rinse immediately with plenty of water. After 1 - 2 initial minutes remove contact lenses if present (if easily possible). Rinse again with plenty of water. Continue to rinse with the eyelid wide open for at least 15 minutes.  
Seek medical attention if irritation persists.
- Protection of first aiders : Avoid exposure.
- Note to physician : No specific antidote known. Treat symptomatically.

**5. Fire-fighting measures**

- Extinguishing media : Dry chemical powder. Carbon dioxide. Foam. Water spray.
- Hazardous thermal (de)composition products : Burning may produce : harmful vapours/gases.  
See also Heading 10 (Stability and reactivity).
- Special procedures : Exercise caution when fighting any chemical fire.  
Do not discharge extinguishing waters into the environment.
- Protection of fire fighters : Wear personal protection.

**6. Accidental release measures**

- Personal precautions : Spill area may be slippery. Wear suitable protection.  
See also section 8.
- Environmental precautions : Prevent dispersion. Do not dump into sewers, on the ground or into any body of water.
- Methods for cleaning up : Prevent dispersion. Collect spills and put it into an appropriated container. Absorb remainder in sand or inert material. Remove as chemical waste, according to national or local legislation.  
See also chapter 13.
- After spillage and/or leakage : Clean up any spills as soon as possible, using an absorbent material to collect it.  
Clean the polluted area with water.

**7. Handling and storage**

- General Handling : **Read label before use.**  
When using, do not eat, drink or smoke.  
For personal protection see chapter 8.
- Technical protective measures : No special measures required.
- Storage : Group : 10  
Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in a frost-free area (20 °C). According to national or local legislation.
- Packaging material : Use original packaging.
- Storage away from : Food, drink and animal feeding stuffs.
- Other information : Use only as plant protection product (herbicide). Do not use for other purposes.

**8. Exposure controls / personal protection**

- Hygiene measures : Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Do not breath spray/vapour. Avoid contact with skin. Wash hands and face with soap and water before the break. Wear clean working clothes every day.

**CERTIS UK**

1b Mills Way Boscombe Down Business Park Amesbury Wiltshire SP4 7RX United Kingdom

Telephone +44(0)1980 676500

Fax +44(0)1980 626555

E-mail: certis@certiseurope.co.uk

**FINALSAN PLUS**
**C0282-C0264-UK**
**8. Exposure controls / personal protection (continued)**
**Personal protection**

- Respiratory protection : Do not breath spray/vapour.
- Skin protection : Wear suitable protective clothing.
- Hand protection : Protective gloves
- Eye protection : Safety glasses with side guards.
- Ingestion : When using, do not eat, drink or smoke.

**9. Physical and chemical properties**

- Appearance : Clear liquid.
- Physical state : Liquid.
- Colour : Slightly yellow
- Odour : Characteristic.
- pH value : 8.4 @ 20 °C (1% aqueous solution)
- Density [kg/mE3] : 1010 @ 20°C
- Solubility in water : Miscible
- Flash point [°C] : > 100 (Method Pensky-Martens)
- Flammability : Not applicable.
- Oxidising properties : Not known
- Melting point [°C] : No data available.
- Boiling point [°C] : No data available.
- Vapour pressure : No data available.
- Surface tension : No data available.
- Viscosity at 20°C [mPa.s] : No data available.
- Ignition temperature [°C] : Not established.
- Explosion properties : No explosive properties.
- Log P octanol / water at 20°C : No data available.

**10. Stability and reactivity**

- Stability : Stable under normal circumstances.
- Hazardous decomposition products : None under normal conditions.  
Burning may produce e.g.: carbon monoxide, nitrogen oxides, hydrocarbons.
- Hazardous reactions : Will not occur.
- Materials to avoid : No specific substances.
- Conditions to avoid : Extremely temperatures.
- Hazardous polymerization : Will not occur.

**11. Toxicological information**

- Rat oral LD50 [mg/kg] : > 5000 (OECD 423)
- Dermal (rat) LD50 [mg/kg] : > 5000 (OECD 402)
- Rat inhalation LC50 [mg/l/4h] : > 5.3 (OECD 403)
- Dermal irritation (rabbit) : Non irritant (OECD 404)
- Eye irritation (rabbit) : Non irritant (OECD 405)
- Sensitization : No sensitization (guinea pig) (OECD 406)

**CERTIS UK**

1b Mills Way Boscombe Down Business Park Amesbury Wiltshire SP4 7RX United Kingdom

Telephone +44(0)1980 676500

Fax +44(0)1980 626555

E-mail: certis@certiseurope.co.uk

**FINALSAN PLUS**
**C0282-C0264-UK**
**12. Ecological information**

**On product** : Harmful to aquatic organisms.  
**LC50-96H-Rainbow trout mg/l** : > 200 (OECD 203)  
**EC50-48H-Daphnia Magna mg/l** : > 200 (OECD 202)  
**EC50 72H (Algae) mg/l** : 47.4  
**Biodegradation** : Biodegradable.  
**Other harmful effects** : Avoid release to the environment.

**13. Disposal considerations**

**Waste-disposal procedures** : Prevent dispersion. Cover spilled material with sand or an other inert material. Collect spills and put it into an appropriated container. Remove waste product to a suitable incinerator. According to national or local legislation. Avoid release to the environment.  
**Waste of residues** : Keep waste separate. Remove as chemical waste, according to national or local legislation.  
**Contaminated packaging** : Keep waste packaging separate. Packaging can be reused after effective cleaning.  
**Industrial waste number** : 06 13 01 \* UK : Inorganic plant protection products, wood-preserving agents and other biocides.  
Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.  
**Recommended cleaning agent** : Water.

**14. Transport information**

Free for transport regulations.

**15. Regulatory information**

**EU Regulations**  
**EU Classification**  
**Hazard symbol(s)** : None.  
**Warning phrases**  
**R Phrase(s)** : R52 : Harmful to aquatic organisms.  
**Safety phrases**  
**S Phrase(s)** : S2 : 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.  
**Other information** : Water hazard class 1 (self-classification)

**16. Other information**

**Certis code** : WA  
**Explanation of R-phrases used in section 3** : R34 : Causes burns.  
**Sources of key data used** : - Classification Database ECB  
- The Pesticide Manual, 13th ed (ISBN 1 901396 12 6)  
- Certis Europe Expert Team (CEET)  
**Further information** : Follow all precautions and instructions on the label.  
Revision - See : \*


**CERTIS UK**

1b Mills Way Boscombe Down Business Park Amesbury Wiltshire SP4 7RX United Kingdom

Telephone +44(0)1980 676500

Fax +44(0)1980 626555

E-mail: certis@certiseurope.co.uk

	<b>MATERIAL SAFETY DATA SHEET</b>	Page : 5
		Version nr : 1
		Date : 4 / 1 / 2011
		Supersedes : 0 / 0 / 0
<b>FINALSAN PLUS</b>		<b>C0282-C0264-UK</b>

#### 16. Other information (continued)

Trade name(s) : FINALSAN PLUS

The contents and format of this MSDS are in accordance with EC Commission Directive 93/112/EEC, 99/45/EC, 2001/58/EC and Reach Regulation 1907/2006.

**DISCLAIMER OF LIABILITY** The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

End of document

#### CERTIS UK

1b Mills Way Boscombe Down Business Park Amesbury Wiltshire SP4 7RX United Kingdom

Telephone +44(0)1980 676500

Fax +44(0)1980 626555

E-mail: certis@certiseurope.co.uk