1. Identification of the substance/mixture and of the company/undertaking

Product identifier
Name of product
Finalsan Unkrautfrei
Prod-Nr. 511,513,528

Manufacturer/distributor
W. Neudorff GmbH KG
An der Mühle 3, D-31860 Emmerthal
Phone 05155/624-0 (Zentrale), Fax 05155/6010, Telex --
E-Mail info@neudorff.de
Internet www.neudorff.de

Advice
Betriebsleitung / Labor
Phone 05155/624-0
E-mail (competent person):
h.hohlfeld@neudorff.de

Emergency advice
Giftnotruf Berlin
Phone +49- (0) 30 / 30686 790

Recommended intended purpose(s)
Herbicide concentrate.

2. Hazards identification

Classification according to 67/548/EEC or 1999/45/EC
Xi; R36
R52
R-phrases
36 Irritating to eyes.
52 Harmful to aquatic organisms.

Labelling according to 67/548/EEC or 1999/45/EC
Xi Irritant

R-phrases
36 Irritating to eyes.
52 Harmful to aquatic organisms.

S-phrases
1/2 Keep locked up and out of the reach of children.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
39 Wear eye/face protection.
46 If swallowed, seek medical advice immediately and show this container or label.
3. Composition/information on ingredients

Description
Herbicide with pelargonic acid - contained as ammonium salt.

Hazardous ingredients

<table>
<thead>
<tr>
<th>CAS No</th>
<th>EC No</th>
<th>Name</th>
<th>[g/l]</th>
<th>Classification according to 67/548/EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>112-05-0</td>
<td>203-931-2</td>
<td>nonanoic-acid / pelargonic acid</td>
<td>186.7</td>
<td>C R34</td>
</tr>
</tbody>
</table>

4. First aid measures

In case of inhalation
Ensure of fresh air.

In case of skin contact
In case of contact with skin wash off with water.

In case of eye contact
Consult a physician if problems continue.
In case of contact with eyes rinse thoroughly with water.

In case of ingestion
Consult a physician if symptoms appear.

Physician's information / possible symptoms
No product specific symptoms known.

Treatment (Advice to doctor)
Treat symptoms.

5. Firefighting measures

Suitable extinguishing media
- water
- Foam
- Dry powder
- Carbon dioxide

Additional information
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions
Forms slippery surfaces with water.

Environmental precautions
Do not discharge into surface waters/groundwater.

Methods for cleaning up
Take up with absorbent material (e.g. sand, sawdust, general-purpose binder).
Flush away residues with water.
7. Handling and storage

Advice on safe handling
Follow the instructions!

Advice on protection against fire and explosion
No special measures necessary.

Requirements for storage rooms and vessels
Keep only in original container.

Advice on storage compatibility
Do not store together with animal feedstuffs.
Do not store together with food.

Further information on storage conditions
Protect from frost.

Storage group 10

Recommendation(s) for intended use
Use only as herbicide according to the operating instruction!

8. Exposure controls/personal protection

Hand protection
Protective gloves

Eye protection
Safety goggles

Skin protection
Light protective clothing.

General protective measures
Avoid long and intensive skin contact.
Do not inhale gases/vapours/aerosols.

Hygiene measures
At work do not eat, drink, smoke or take drugs.
Keep away from food and drink.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Colour</th>
<th>Odour</th>
</tr>
</thead>
<tbody>
<tr>
<td>liquid</td>
<td>light yellow</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

<p>| Important health, safety and environmental information |</p>
<table>
<thead>
<tr>
<th>Value</th>
<th>Temperature at</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value in delivery state</td>
<td>8.25 - 8.45</td>
<td>20 °C</td>
<td>CIPAC MT 75</td>
</tr>
</tbody>
</table>
### Value Temperature at Method Remark

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Temperature</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>starts to boil</td>
<td>not required</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>melting temperature</td>
<td>not required</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 95 °C</td>
<td></td>
<td>EEC A.9. GLP</td>
<td></td>
</tr>
<tr>
<td>Flammable solid</td>
<td>not applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (gas)</td>
<td>not applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>not determined</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition</td>
<td>&gt; 320 °C</td>
<td></td>
<td>EEC A 15</td>
<td></td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>no</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>no</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not required</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>0.96 g/cm³</td>
<td>20 °C</td>
<td>OECD 109</td>
<td></td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Unlimitedly soluble in water.</td>
<td>20 °C</td>
<td>OECD 109</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>11 - 16 mPa*s</td>
<td>20 °C</td>
<td>DIN 53019</td>
<td></td>
</tr>
</tbody>
</table>

**Oxidizing properties**
no

**Explosive properties**
The product is not explosive.

### 10. Stability and reactivity

**Hazardous decomposition products**
unknown

**Additional information**
No decomposition during correct storage.

### 11. Toxicological information

**Acute toxicity/Irritability/Sensitization**

<table>
<thead>
<tr>
<th>Value/Validation</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 acute oral</td>
<td>&gt; 5000 mg/kg</td>
<td>rat</td>
<td>OECD 401</td>
</tr>
<tr>
<td>LD50 acute dermal</td>
<td>&gt; 5000 mg/kg</td>
<td>rat</td>
<td>OECD 402</td>
</tr>
<tr>
<td>Irritability skin</td>
<td>non-irritant</td>
<td>rabbit</td>
<td>OECD 404</td>
</tr>
</tbody>
</table>
Irritability eye

<table>
<thead>
<tr>
<th>Value/Validation</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>irritant</td>
<td>rabbit eye</td>
<td>OECD 405</td>
<td></td>
</tr>
</tbody>
</table>

Skin sensitization

<table>
<thead>
<tr>
<th>Value/Validation</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>non-sensitizing</td>
<td>Guinea pig</td>
<td>OECD 406</td>
</tr>
</tbody>
</table>

12. Ecological information

<table>
<thead>
<tr>
<th>Ecotoxicological effects</th>
<th>Value</th>
<th>Species</th>
<th>Method</th>
<th>Validation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish</td>
<td>NOEC 100 mg/l</td>
<td>rainbow trout</td>
<td>OECD 203</td>
<td></td>
</tr>
<tr>
<td>Daphnia</td>
<td>NOEC 10 mg/l</td>
<td>Daphnia magna</td>
<td>OECD 202</td>
<td></td>
</tr>
<tr>
<td>Algae</td>
<td>NOEC 20 mg/l</td>
<td>Scenedesmus subspicatus</td>
<td>OECD 201</td>
<td></td>
</tr>
</tbody>
</table>

General regulation
biodegradable
Do not allow uncontrolled leakage of product into the environment.

13. Disposal considerations

<table>
<thead>
<tr>
<th>Waste code No.</th>
<th>Name of waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 13 01*</td>
<td>inorganic plant protection products, wood-preserving agents and other biocides.</td>
</tr>
<tr>
<td>07 04 04*</td>
<td>other organic solvents, washing liquids and mother liquors</td>
</tr>
</tbody>
</table>

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

Recommendations for the product
In accordance with regulations for special waste, must be taken to a special waste disposal.

Recommendations for packaging
Totally emptied packaging may be taken for recycling.

Recommended cleansing agent
Rinsing out thoroughly with water.

General information
Small amounts out of private households should be given away to the official disposal sites.

14. Transport information

Transport/further information
non hazardous good
15. Regulatory information

Water hazard class

1 self-classification

16. Other information

Recommended uses and restrictions
Follow the instructions!

Further information
The information provided in this Safety Data Sheet is supplied in good faith and is accurate at the date of its publication. The information will be updated as and when appropriate. It is not a specification of the product nor does it list the uses.

Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)
R 34 Causes burns.