SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : HANDY FLO 510
Product code : 83-510

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

No additional information available

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

| Acute toxicity (oral), Category 4 | H302 | Harmful if swallowed. |
| Serious eye damage/eye irritation, Category 2B | H320 | Causes eye irritation |
| Reproductive toxicity, Category 2 | H361 | Suspected of damaging fertility or the unborn child. |

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H302 - Harmful if swallowed.
H320 - Causes eye irritation
H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements (GHS-US) :
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 - If swallowed: Call a poison center/doctor if you feel unwell
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.
P330 - Rinse mouth.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable
3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petrolatum</td>
<td>(CAS-No.) 8009-03-8</td>
<td>45 - 50</td>
</tr>
<tr>
<td>Boric acid (H3BO3)</td>
<td>(CAS-No.) 10043-35-3</td>
<td>20.25 - 22.5</td>
</tr>
<tr>
<td>Potassium fluoride (K(HF2))</td>
<td>(CAS-No.) 7789-29-9</td>
<td>15.75 - 17.5</td>
</tr>
<tr>
<td>Carbonic acid, dipotassium salt</td>
<td>(CAS-No.) 584-08-7</td>
<td>2.25 - 2.5</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures
No additional information available

4.2. Most important symptoms and effects (acute and delayed)
No additional information available

4.3. Immediate medical attention and special treatment, if necessary
No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media
No additional information available

5.2. Specific hazards arising from the chemical
No additional information available

5.3. Special protective equipment and precautions for fire-fighters
No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
No additional information available

6.1.2. For emergency responders
No additional information available

6.2. Environmental precautions
No additional information available

6.3. Methods and material for containment and cleaning up
No additional information available

6.4. Reference to other sections
No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling
No additional information available

7.2. Conditions for safe storage, including any incompatibilities
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Product</th>
<th>Precaution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petrolatum (8009-03-8)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Potassium fluoride (K(HF2))</td>
<td>Not applicable</td>
</tr>
<tr>
<td>(7789-29-9)</td>
<td></td>
</tr>
</tbody>
</table>
8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
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<tr>
<td>Colour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
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<tr>
<td>Solubility</td>
<td>No data available</td>
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<tr>
<td>Log Pow</td>
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</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available
10.6. Hazardous decomposition products
No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Oral: Harmful if swallowed.

HANDY FLO 510
ATE US (oral) 864.195 mg/kg bodyweight

Petrolatum (8009-03-8)
LD50 dermal rabbit 3600 mg/kg
ATE US (dermal) 3600 mg/kg bodyweight

Potassium fluoride (K(HF2)) (7789-29-9)
LD50 oral rat 160 mg/kg
ATE US (oral) 160 mg/kg bodyweight

Boric acid (H3BO3) (10043-35-3)
LD50 oral rat 2660 mg/kg
LD50 dermal rabbit > 2000 mg/kg
LC50 inhalation rat (mg/l) > 0.16 mg/l/4h
ATE US (oral) 2660 mg/kg bodyweight

Carbonic acid, dipotassium salt (584-08-7)
LD50 oral rat 1870 mg/kg
ATE US (oral) 1870 mg/kg bodyweight

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Causes eye irritation.
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

Reproductive toxicity: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Boric acid (H3BO3) (10043-35-3)
EC50 Daphnia 1 115 - 153 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential

Boric acid (H3BO3) (10043-35-3)
BCF fish 1 0
Log Pow -0.757 (at 25 °C)

12.4. Mobility in soil
No additional information available
12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations
13.1. Disposal methods
No additional information available

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT
Not applicable

Transportation of Dangerous Goods
Not applicable

Transport by sea
Not applicable

Air transport
Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Petrolatum (8009-03-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Potassium fluoride (K(HF2)) (7789-29-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Boric acid (H3BO3) (10043-35-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Carbonic acid, dipotassium salt (584-08-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

Petrolatum (8009-03-8)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Potassium fluoride (K(HF2)) (7789-29-9)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Boric acid (H3BO3) (10043-35-3)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Carbonic acid, dipotassium salt (584-08-7)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

Potassium fluoride (K(HF2)) (7789-29-9)
U.S. - New Jersey - Right to Know Hazardous Substance List
### SECTION 16: Other information

Full text of H-statements:

<table>
<thead>
<tr>
<th>H-statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H320</td>
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<tr>
<td>H361</td>
<td>Suspected of damaging fertility or the unborn child.</td>
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SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.