SECTION 1: Identification

1.1 Product identifier
Trade name Mist 'N Brush Soil Encapsulator

Other means of identification
Product code(s): 1222

Formula code: 06-140102

1.2 Relevant identified uses
Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet
MasterBlend • 5285 Fox Street • CO 80216 Denver • United States • Telephone: 303.373.0702 • Telefax 303.373.4968 • e-mail: info@masterblend.net • Website: masterblend.net

1.4 Emergency telephone number
Chem-Tel 1.800.255.3924 (USA & Canada) 1.813.248.0585 (International)

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture
Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200) This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements
Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200) not required

2.3 Other hazards
There is no additional information.

SECTION 3: Composition/information on ingredients

3.1 Substances
not relevant (mixture)

3.2 Mixtures

3.2.1

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Identifier</th>
<th>Wt%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic copolymer</td>
<td>CAS No Trade Secret</td>
<td>5 - &lt; 15</td>
</tr>
<tr>
<td>Aqueous detergent</td>
<td>CAS No Trade Secret</td>
<td>1 - &lt; 5</td>
</tr>
<tr>
<td>Sodium sulphate</td>
<td>CAS No 7757-82-6</td>
<td>1 - &lt; 5</td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether</td>
<td>CAS No 34590-94-8</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Dipropylene Glycol Butyl Ether</td>
<td>CAS No 29911-28-2</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Tetrasodium Iminodisuccinate</td>
<td>CAS No 144538-83-0</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Fragrance</td>
<td>CAS No Trade Secret</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>
**SECTION 4: First-aid measures**

### 4.1 Description of first-aid measures

**General notes**
Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

**Following inhalation**
If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

**Following skin contact**
Wash with plenty of soap and water.

**Following eye contact**
Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

**Following ingestion**
Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

---

**SECTION 5: Fire-fighting measures**

### 5.1 Extinguishing media

- **Suitable extinguishing media**
  - water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO2)
- **Unsuitable extinguishing media**
  - water jet

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

- **Hazardous combustion products**
  - nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Identifier</th>
<th>Wt%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium xylenesulphonate</td>
<td>CAS No 1300-72-7</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>1,2-Benzothiazol-3-one</td>
<td>CAS No 2634-33-5</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
   For non-emergency personnel
   Remove persons to safety.

   For emergency responders
   Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions
   Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up
   Advices on how to contain a spill
   Covering of drains.

   Advices on how to clean up a spill
   Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

   Appropriate containment techniques
   Use of adsorbent materials.

   Other information relating to spills and releases
   Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling
   Recommendations
   Measures to prevent fire as well as aerosol and dust generation
   Use local and general ventilation. Use only in well-ventilated areas.

   Advice on general occupational hygiene
   Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingsuffs.

   Managing of associated risks
   Incompatible substances or mixtures
   Observe compatible storage of chemicals.

7.2 Conditions for safe storage, including any incompatibilities

7.3 Specific end use(s)
   See section 16 for a general overview.
8.1 Control parameters

**National limit values**

**Occupational exposure limit values (Workplace Exposure Limits)**

<table>
<thead>
<tr>
<th>Country</th>
<th>Name of agent</th>
<th>CAS No</th>
<th>Identifier</th>
<th>TWA [ppm]</th>
<th>TWA [mg/m³]</th>
<th>STEL [ppm]</th>
<th>STEL [mg/m³]</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>dipropylene glycol methyl ether</td>
<td>34590-94-8</td>
<td>PEL</td>
<td>100</td>
<td>600</td>
<td></td>
<td></td>
<td>29 CFR OSHA</td>
</tr>
</tbody>
</table>

**STEL** Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified.

**TWA** Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average.

**Relevant DNELs/DMELs/PNECs and other threshold levels**

No data available.

8.2 Exposure controls

**Appropriate engineering controls**
General ventilation.

**Individual protection measures (personal protective equipment)**

**Eye/face protection**
Wear eye/face protection.

**Skin protection**

- **hand protection**
  Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- **other protection measures**
  Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

**Respiratory protection**
In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**
Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

**Appearance**
- Physical state: liquid
- Color: different
- Odor: characteristic

**Other physical and chemical parameters**
- pH (value): 5.3
- Melting point/freezing point: not determined
- Initial boiling point and boiling range: 189.6 °C
- Flash point: >96.11 °C
- Evaporation rate: not determined
- Flammability (solid, gas): not relevant (fluid)

**Explosive limits**
- lower explosion limit (LEL): 1.1 vol%
- upper explosion limit (UEL): 14 vol%

**Vapor pressure**: 0.28 mmHg at 20 °C
- Density: not determined
- Relative density: not determined
- Solubility(ies): not determined
- Auto-ignition temperature: 207 °C
- Viscosity: not determined
- Explosive properties: none
- Oxidizing properties: none

SECTION 10: Stability and reactivity

10.1 Reactivity
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability
See below "Conditions to avoid".

10.3 Possibility of hazardous reactions
No known hazardous reactions.

10.4 Conditions to avoid
There are no specific conditions known which have to be avoided.
Physical stresses which might result in a hazardous situation and have to be avoided
strong shocks

10.5 Incompatible materials
There is no additional information.

10.6 Hazardous decomposition products
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and
heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Test data are not available for the complete mixture.

Classification procedure
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)
not relevant

Acute toxicity
Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Exposure route</th>
<th>ATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium sulphate</td>
<td>7757-82-6</td>
<td>inhalation: dust/mist</td>
<td>&gt;2.4</td>
</tr>
<tr>
<td>Dipropylene Glycol Butyl Ether</td>
<td>29911-28-2</td>
<td>oral</td>
<td>1,480</td>
</tr>
<tr>
<td>1,2-Benzothiazol-3-one</td>
<td>2634-33-5</td>
<td>oral</td>
<td>500</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation
Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization
Shall not be classified as a respiratory or skin sensitizer.

Summary of evaluation of the CMR properties
Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Carcinogenicity
- National Toxicology Program (United States): none of the ingredients are listed
- IARC Monographs none of the ingredients are listed

Specific target organ toxicity (STOT)
Shall not be classified as a specific target organ toxicant.

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.
### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

**Aquatic toxicity** (acute) of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium sulphate</td>
<td>7757-82-6</td>
<td>LC50</td>
<td>7,960 mg/l</td>
<td>fish</td>
<td>96 hours</td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether</td>
<td>34590-94-8</td>
<td>LC50</td>
<td>&gt;1,000 mg/l</td>
<td>fish</td>
<td>96 hours</td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether</td>
<td>34590-94-8</td>
<td>ErC50</td>
<td>&gt;969 mg/l</td>
<td>algae</td>
<td>72 hours</td>
</tr>
<tr>
<td>Dipropylene Glycol Butyl Ether</td>
<td>29911-28-2</td>
<td>LC50</td>
<td>841 mg/l</td>
<td>fish</td>
<td>96 hours</td>
</tr>
<tr>
<td>Dipropylene Glycol Butyl Ether</td>
<td>29911-28-2</td>
<td>EC50</td>
<td>&gt;969 mg/l</td>
<td>algae</td>
<td>72 hours</td>
</tr>
</tbody>
</table>

**Aquatic toxicity** (chronic) of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium sulphate</td>
<td>7757-82-6</td>
<td>LC50</td>
<td>&gt;8,080 mg/l</td>
<td>fish</td>
<td>24 h</td>
</tr>
<tr>
<td>sodium sulphate</td>
<td>7757-82-6</td>
<td>EC50</td>
<td>1,698 mg/l</td>
<td>aquatic invertebrates</td>
<td>7 d</td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether</td>
<td>34590-94-8</td>
<td>LC50</td>
<td>&gt;1,000 mg/l</td>
<td>aquatic invertebrates</td>
<td>24 h</td>
</tr>
<tr>
<td>Dipropylene Glycol Butyl Ether</td>
<td>29911-28-2</td>
<td>EC50</td>
<td>&gt;1,000 mg/l</td>
<td>microorganisms</td>
<td>30 min</td>
</tr>
</tbody>
</table>

**Biodegradation**

The relevant substances of the mixture are readily biodegradable.

**12.2 Persistence and degradability**

Data are not available.

**Degradability of components of the mixture**

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Process</th>
<th>Degradation rate</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene Glycol Monomethyl Ether</td>
<td>34590-94-8</td>
<td>oxygen depletion</td>
<td>75 %</td>
<td>10 d</td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether</td>
<td>34590-94-8</td>
<td>DOC removal</td>
<td>96 %</td>
<td>28 d</td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether</td>
<td>34590-94-8</td>
<td>carbon dioxide genera-</td>
<td>76 %</td>
<td>28 d</td>
</tr>
<tr>
<td>Dipropylene Glycol Butyl Ether</td>
<td>29911-28-2</td>
<td>DOC removal</td>
<td>91 %</td>
<td>28 d</td>
</tr>
</tbody>
</table>
12.3 Bioaccumulative potential
Data are not available.

Bioaccumulative potential of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>BCF</th>
<th>Log KOW</th>
<th>BOD5/COD</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium sulphate</td>
<td>7757-82-6</td>
<td>0.5</td>
<td>-4.38</td>
<td></td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether</td>
<td>34590-94-8</td>
<td>0.0043</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sodium xylenesulphonate</td>
<td>1300-72-7</td>
<td></td>
<td>-3.12</td>
<td></td>
</tr>
</tbody>
</table>

12.4 Mobility in soil
Data are not available.

12.5 Results of PBT and vPvB assessment
Data are not available.

12.6 Other adverse effects
Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information
Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages
Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks
Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number
(not subject to transport regulations)

14.2 UN proper shipping name
not relevant

14.3 Transport hazard class(es)
Class -

14.4 Packing group
not relevant

14.5 Environmental hazards
none (non-environmentally hazardous acc. to the dangerous goods regulations)

14.6 Special precautions for user
There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Industry or sector specific available guidance(s)

NPCA-HMIS® III
Hazardous Materials Identification System (American Coatings Association)

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic</td>
<td>/</td>
<td>None.</td>
</tr>
<tr>
<td>Health</td>
<td>0</td>
<td>No significant risk to health.</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
<td>Material that must be preheated before ignition can occur.</td>
</tr>
<tr>
<td>Physical hazard</td>
<td>0</td>
<td>Material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive.</td>
</tr>
<tr>
<td>Personal protective equipment</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

NFPA® 704

<table>
<thead>
<tr>
<th>Category</th>
<th>Degree of hazard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>1</td>
<td>Material that must be preheated before ignition can occur.</td>
</tr>
<tr>
<td>Health</td>
<td>0</td>
<td>Material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material.</td>
</tr>
<tr>
<td>Instability</td>
<td>0</td>
<td>Material that is normally stable, even under fire conditions.</td>
</tr>
<tr>
<td>Special hazard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 16: Other information, including date of preparation or last revision

Abbreviations and acronyms

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Descriptions of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>BioConcentration Factor</td>
</tr>
<tr>
<td>BOD</td>
<td>Biochemical Oxygen Demand</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)</td>
</tr>
<tr>
<td>CMR</td>
<td>Carcinogenic, Mutagenic or toxic for Reproduction</td>
</tr>
<tr>
<td>COD</td>
<td>chemical oxygen demand</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimal Effect Level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No-Effect Level</td>
</tr>
<tr>
<td>GHS</td>
<td>&quot;Globally Harmonized System of Classification and Labelling of Chemicals&quot; developed by the United Nations</td>
</tr>
<tr>
<td>HMIS</td>
<td>Hazardous Materials Identification System</td>
</tr>
<tr>
<td>IARC Mono-</td>
<td>IARC Monographs on the Evaluation of Carcinogenic Risks to Humans</td>
</tr>
</tbody>
</table>

United States
MB 000046 SDS-01
Page 9 / 10
Physical and chemical properties: The classification is based on tested mixture.

Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Key literature references and sources for data**

**Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.
Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

**Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.