1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier
   Ecoplug Max

1.1.1. Chemical name
   Not applicable for a mixture.

1.1.2. Synonyms
   None.

1.1.3. CLP Annex VI Index No.
   Not applicable.

1.1.4. C&L ID No.
   Not available.

1.1.5. EC No.
   Not applicable for a mixture.

1.1.6. REACH Reg. No.
   Not applicable for a mixture.

1.1.7. CAS No.
   Not applicable for a mixture.

1.2. Product use
   Herbicide

1.3. Company/(Sales office)
   MONSANTO Europe S.A./N.V.
   Haven 627, Scheldelaan 460, B-2040 Antwerp, Belgium
   Telephone: +32 (0)3 568 51 11
   Fax: +32 (0)3 568 50 90
   E-mail: safety.datasheet@monsanto.com

1.4. Emergency numbers
   Telephone: Belgium +32 (0)3 568 51 23

2. HAZARDS IDENTIFICATION

2.1. Classification

2.1.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] (manufacturer self-classification)
   Not classified as dangerous.
   Hxxx Not applicable.

2.1.2. Classification according to Regulation (EC) No. 1272/2008 [CLP]: U.K., Ireland
   Aquatic Acute - Category 3
   H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements
   Labelling according to Regulation (EC) No. 1272/2008 [CLP]
   Hazard pictogram/pictograms
   Not applicable.
Signal word
Not applicable.

Hazard statement/statements
Hxxx Not applicable.

Precautionary statement/statements
Pxxx Not applicable.

Supplemental hazard information
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Label elements: U.K., Ireland
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word: U.K., Ireland
Not applicable.

Hazard statement/statements: U.K., Ireland
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement/statements: U.K., Ireland
P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

2.3. Other hazards
0% of the mixture consists of ingredient/ingredients of unknown acute toxicity.
0% of the mixture consists of ingredient/ingredients of unknown hazards to the aquatic environment.

2.3.1. Potential environmental effects
Not expected to produce significant adverse effects when recommended use instructions are followed.

2.4. Appearance and odour (colour/form/odour)
ivory cream /Granules / Chemical

Refer to section 11 for toxicological and section 12 for environmental information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: Not applicable.

3.2 Mixture: Yes.

Composition/information on ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>EU Index No. / REACH Reg. No. / C&amp;I ID No.</th>
<th>Concentration</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium salt of glyphosate</td>
<td>40465-66-5</td>
<td>- /</td>
<td>- /</td>
<td>79,00 %</td>
<td>Aquatic Chronic - Category 2; H411</td>
</tr>
<tr>
<td>Surfactant</td>
<td>- /</td>
<td>- /</td>
<td>- /</td>
<td>12,0 %</td>
<td>Skin corrosion/irritation - Category 2, Eye damage/irritation - Category 2, Aquatic Acute - Category 1, Aquatic Chronic - Category 1; H315, 319, 400, 410; [d]</td>
</tr>
<tr>
<td>Minor formulating ingredients</td>
<td>- /</td>
<td>- /</td>
<td>- /</td>
<td>8,50 %</td>
<td></td>
</tr>
</tbody>
</table>
**Sodium sulphite**

| Sodium sulphite | 7757-83-7 | -/- | -/- | 0.50 % |

**Active ingredient**

Ammonium salt of N-(phosphonomethyl)glycine; [Ammonium salt of glyphosate]

The specific chemical identity is being withheld because it is trade secret information of Monsanto Company.

Full text of classification code: See section 16.

### 4. FIRST AID MEASURES

Use personal protection recommended in section 8.

#### 4.1. Description of first aid measures

First aid measures are for burst plugs.

**4.1.1. Eye contact**

Immediately flush with plenty of water. If easy to do, remove contact lenses.

**4.1.2. Skin contact**

Take off contaminated clothing, wristwatch, jewellery. Wash affected skin with plenty of water.

Wash clothes and clean shoes before re-use.

**4.1.3. Inhalation**

Remove to fresh air.

**4.1.4. Ingestion**

Ensure person is not choking. Immediately offer water to drink. Do NOT induce vomiting unless directed by medical personnel. If symptoms occur, get medical attention.

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

**4.2.1. Potential health effects**

**Likely routes of exposure:** None., Packaging prevents likely exposure., Adverse health effects listed are for burst plugs.

**Eye contact, short term:** Causes moderate but temporary eye irritation.

**Skin contact, short term:** Not expected to produce significant adverse effects when recommended use instructions are followed.

**Inhalation, short term:** Not expected to produce significant adverse effects when recommended use instructions are followed.

**Single ingestion:** The packaging may pose a choking hazard. Not expected to produce significant adverse effects when recommended use instructions are followed. Harmful if swallowed.

**4.2.2. Medical conditions aggravated by exposure:**

Hypersensitivity to sulphiting agents.

**Note:** A very small percentage of particularly sensitive people may suffer skin or respiratory reactions.

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

**4.3.1. Advice to doctors**

This product is not an inhibitor of cholinesterase.

**4.3.2. Antidote**

Treatment with atropine and oximes is not indicated.

### 5. FIRE-FIGHTING MEASURES

**5.1. Extinguishing media**

**5.1.1. Recommended:** Water, Foam, Dry chemical, Carbon dioxide (CO2)
5.2. Special hazards

5.2.1. Unusual fire and explosion hazards

Minimise use of water to prevent environmental contamination. Environmental precautions: see section 6.

5.2.2. Hazardous products of combustion

Carbon monoxide (CO), Phosphorus oxides (PxOy), Nitrogen oxides (NOx), Sulphur oxides (SOx)

5.3. Advice for firefighters

Self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

5.4. Flash point

Not applicable.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

6.2. Environmental precautions

Keep out of drains, sewers, ditches and water ways.

6.3. Methods for cleaning up

Not applicable.

Refer to section 13 for disposal of spilled material.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Good industrial practice in housekeeping and personal hygiene should be followed. Avoid contact with eyes. When using do not eat, drink or smoke. Wash hands thoroughly after handling or contact. Wash contaminated clothing before re-use. Thoroughly clean equipment after use. Refer to section 13 of the safety data sheet for disposal of rinse water.

Emptied containers retain vapour and product residue. FOLLOW LABELLED WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

7.2. Conditions for safe storage, including any incompatibilities

Compatible materials for storage: stainless steel, Aluminium, fibreglass, plastic, glass lining

Incompatible materials for storage: galvanised steel, unlined mild steel

Keep out of reach of children. Keep away from food, drink and animal feed. Keep only in the original container. Keep container dry. Keep container off wet floors.

Minimum shelf life: 2 years.

7.3. Specific end use(s)

Pesticide: Read and follow label instructions

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>Exposure Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium salt of glyphosate</td>
<td>No specific occupational exposure limit has been established.</td>
</tr>
</tbody>
</table>
8.2. Exposure controls

**Engineering controls**
Have eye wash facilities immediately available at locations where eye contact can occur.

**Eye protection:**
If there is significant potential for contact: Wear dust goggles.

**Skin protection:**
If repeated or prolonged contact: Wear chemical resistant gloves.

**Respiratory protection:**
No special requirement when used as recommended.

When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

9. PHYSICAL AND CHEMICAL PROPERTIES

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

<table>
<thead>
<tr>
<th>Colour/colour range:</th>
<th>ivory cream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form:</td>
<td>Granules</td>
</tr>
<tr>
<td>Odour:</td>
<td>Chemical</td>
</tr>
<tr>
<td>Odour threshold:</td>
<td>No data</td>
</tr>
</tbody>
</table>

**Physical form changes (melting, boiling, etc.):**

| Melting point:       | No data    |
| Flash point:         | Not applicable |

**Explosive properties:**
No explosive properties

**Auto ignition temperature:**
Does not self-ignite.

**Self-accelerating decomposition temperature (SADT):**
No data.

**Oxidizing properties:**
none

**Specific gravity:**
Not applicable.

**Vapour pressure:**
No significant volatility.

**Vapour density:**
Not applicable.

**Dynamic viscosity:**
Not applicable.

**Kinematic viscosity:**
Not applicable.

**Density:**
0.55 g/cm³; (loose bulk density)

**Solubility:**
Water: Soluble

**pH:**
3.8 @ 20 °C @ 10 g/l

**Partition coefficient:**
Log Pow: -3.02 @ 25 °C (Glyphosate)

**Evaporation rate:**
Not applicable.
10. **STABILITY AND REACTIVITY**

10.1. **Reactivity**
Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

10.2. **Chemical stability**
Stable under normal conditions of handling and storage.

10.3. **Possibility of hazardous reactions**
Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

10.4. **Conditions to avoid**
None

10.5. **Incompatible materials**
Incompatible materials for storage: galvanised steel, unlined mild steel
Compatible materials for storage: see section 7.2.

10.6. **Hazardous decomposition products**
Hazardous products of combustion: see section 5.

11. **TOXICOLOGICAL INFORMATION**

This section is intended for use by toxicologists and other health professionals.

11.1. **Information on toxicological effects**
- **Acute oral toxicity**: Based on available data classification criteria are not met.
- **Acute dermal toxicity**: Based on available data classification criteria are not met.
- **Acute inhalation toxicity**: Based on available data classification criteria are not met.
- **Skin corrosion/irritation**: Based on available data classification criteria are not met.
- **Eye corrosion/irritation**: Based on available data classification criteria are not met.
- **Skin sensitization**: Based on available data classification criteria are not met.
- **Respiratory sensitization**: Based on available data classification criteria are not met.
- **Mutagenicity**: Based on available data classification criteria are not met.
- **Carcinogenicity**: Based on available data classification criteria are not met.
- **Reproductive/Developmental Toxicity**: Based on available data classification criteria are not met.
- **Specific Target Organ Toxicity - Single Exposure**: Based on available data classification criteria are not met.
- **Specific Target Organ Toxicity - Repeated Exposure**: Based on available data classification criteria are not met.
- **Aspiration hazard**: Based on available data classification criteria are not met.

**Most important symptoms and effects, both acute and delayed**
- **Potential health effects**
- ** Likely routes of exposure**: None., Packaging prevents likely exposure., Adverse health effects listed are for burst plugs.
- **Eye contact, short term**: Causes moderate but temporary eye irritation.
- **Skin contact, short term**: Not expected to produce significant adverse effects when recommended use instructions are followed.
- **Inhalation, short term**: Not expected to produce significant adverse effects when recommended use instructions are followed.
**Single ingestion:** The packaging may pose a choking hazard. Not expected to produce significant adverse effects when recommended use instructions are followed. Harmful if swallowed.

**Medical conditions aggravated by exposure:** Hypersensitivity to sulphiting agents.

**Note:** A very small percentage of particularly sensitive people may suffer skin or respiratory reactions.

Data obtained on product and components are summarized below.

**Acute oral toxicity**
- Rat, LD50 (Method: Up-and-down procedure (OECD 425)): > 5,000 mg/kg body weight
  - No mortality. Practically non-toxic.

**Acute dermal toxicity**
- Rat, LD50: > 5,000 mg/kg body weight
  - No mortality. Practically non-toxic.

**Acute inhalation toxicity**
- Rat, LC50, 4 hours, aerosol:
  - No 4-hr LC50 at the maximum tested concentration. No mortality. For purposes of the inhalation test, product was artificially aerosolized. Since this material will not become aerosolized to a hazardous concentration during transport, it is classified as non-hazardous under the transportation regulations in accordance with 2.6.2.2.4.7(b) and (c) of the UN Recommendations on the Transport of Dangerous Goods. This product is not aerosolized during handling or use and is therefore not classified as hazardous under the CLP Regulation (EC 1272/2008). Practically non-toxic.

**Skin irritation**
- Rabbit, 3 animals, OECD 404 test:
  - Redness, individual EU scores: 1,00; 1,00; 1,00
  - Swelling, individual EU scores: 0,33; 0,33; 0,33
  - Days to heal: 3
  - Slightly irritating to skin but not sufficient for classification.

**Eye irritation**
- Rabbit, 3 animals, OECD 405 test:
  - Conjunctival redness, individual EU scores: 1,33; 0,67; 1,33
  - Conjunctival swelling, individual EU scores: 0,33; 0,33; 0,67
  - Corneal opacity, individual EU scores: 0,00; 0,00; 0,00
  - Iris lesions, individual EU scores: 0,00; 0,00; 0,00
  - Days to heal: 3
  - Slightly irritating to eyes but not sufficient for classification.

**Skin sensitization**
- Guinea pig, 9-induction Buehler test:
  - Positive incidence: 0 %
  - Negative.

**N-(phosphonomethyl)glycine; [glyphosate acid]**

**Genotoxicity**
- Not genotoxic.

**Carcinogenicity**
- Not carcinogenic in rats or mice.

**Reproductive/Developmental Toxicity**
- Developmental effects in rats and rabbits only in the presence of significant maternal toxicity.
- Reproductive effects in rats only in the presence of significant maternal toxicity.

**Sodium sulphite**
EXPERIENCE WITH HUMAN EXPOSURE

- **Eye contact, excessive, occupational:**
  - **Eye effects:** irritation

- **Skin contact, excessive, occupational:**
  - **Skin effects:** irritation, sensitization in susceptible individuals

- **Inhalation, excessive, occupational:**
  - **Respiratory effects:** Respiratory sensitization, irritation, asthma

- **Ingestion, short term, case report(s):**
  - **Gastro-intestinal effects:** irritation

- **Ingestion, excessive, case report(s):**
  - **Gastro-intestinal effects:** diarrhoea, abdominal pain
  - **Cardiovascular effects:** decreased blood pressure (hypotension)

12. ECOLOGICAL INFORMATION

This section is intended for use by ecotoxicologists and other environmental specialists.

Data obtained on product and components are summarized below.

12.1 **Toxicity**

- **Aquatic toxicity, fish**
  - **Zebra fish (Brachydanio rerio):** Acute toxicity, 96 hours, static, EC50: 102 mg/L

- **Aquatic toxicity, invertebrates**
  - **Water flea (Daphnia magna):** Acute toxicity (limit test), 48 hours, static, EC50: > 100 mg/L

- **Aquatic toxicity, algae/aquatic plants**
  - **Green algae (Pseudokirchneriella subcapitata):** Acute toxicity, 72 hours, ErC50 (growth rate): 51 mg/L
  - **Green algae (Pseudokirchneriella subcapitata):** Acute toxicity, 72 hours, NOEC: 10 mg/L

- **Avian toxicity**
  - **Japanese quail (Coturnix coturnix japonica):** Acute oral toxicity (limit test), single dose, LD50: > 2.000 mg/kg body weight

- **Arthropod toxicity**
  - **Honey bee (Apis mellifera):**
    - Contact, 48 hours, LD50: > 100 µg/bee
  - **Honey bee (Apis mellifera):**
    - Oral, 48 hours, LD50: > 104.8 µg/bee

- **Soil organism toxicity, invertebrates**
  - **Earthworm (Eisenia fetida):**
    - Acute toxicity (limit test), 14 days, LC50: > 1.000 mg/kg dry soil

- **Soil organism toxicity, microorganisms**
  - **Nitrogen and carbon transformation test:** 3.5 kg/ha, 28 days: Less than 25% effect on nitrogen or carbon transformation processes in soil.

12.2 **Persistence and degradability**

No data.

12.3 **Bioaccumulative potential**

Refer to section 9 for partition coefficient data.

12.4 **Mobility in soil**

No data.
12.5 **Results of PBT and vPvB assessment**

Not a persistent, bioaccumulative or toxic (PBT) nor a very persistent, very bioaccumulative (vPvB) mixture.

12.6 **Other adverse effects**

Not expected to produce significant adverse effects when recommended use instructions are followed.

12.7 **Additional information**

If available, data obtained on similar products and/or on components are summarized below.

N-(phosphonomethyl)glycine; {glyphosate acid}

**Bioaccumulation**

Bluegill sunfish (Lepomis macrochirus):

- Whole fish: BCF: < 1
- No significant bioaccumulation is expected.

**Dissipation**

**Soil, field:**
- Half life: 2 - 174 days
- Koc: 884 - 60,000 L/kg
- Adsorbs strongly to soil.

**Water, aerobic:**
- Half life: < 7 days

---

13. **DISPOSAL CONSIDERATIONS**

13.1. **Waste treatment methods**

13.1.1. **Product**


13.1.2. **Container**

Follow all local/regional/national/international regulations on waste disposal, packaging waste collection/disposal. Follow current edition of the General Waste, Landfill, and Burning of Hazardous Waste Directives; and the Shipment of Waste Regulation. Do not re-use plugs. Inspect for emptiness/cleanliness. Empty inspected plugs can be disposed of as non hazardous industrial waste. Store for collection by approved waste disposal service. Recycle if appropriate facilities/equipment available. Recycle the non-hazardous plug only when a proper control on the end use of the recycled plastic is possible. Suitable for industrial grade recycling only. Do NOT recycle plastic that could end in any human or food contact application. The empty plastic plug meets the requirements for energy recovery. Disposal in a incinerator with energy recovery is recommended.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

14. **TRANSPORT INFORMATION**

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

**ADR/RID**
14.1 UN No.: Not applicable.
14.2 Proper Shipping Name (Technical Name if required): Not applicable.
14.3 Transport hazard class: Not applicable.
14.4 Packing Group: Not applicable.
14.5 Environmental hazards: Not applicable.
14.6 Special precautions for the user: Not applicable.

IMO
14.1 UN No.: Not applicable.
14.2 Proper Shipping Name (Technical Name if required): Not applicable.
14.3 Transport hazard class: Not applicable.
14.4 Packing Group: Not applicable.
14.5 Environmental hazards: Not applicable.
14.6 Special precautions for the user: Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

IATA/ICAO
14.1 UN No.: Not applicable.
14.2 Proper Shipping Name (Technical Name if required): Not applicable.
14.3 Transport hazard class: Not applicable.
14.4 Packing Group: Not applicable.
14.5 Environmental hazards: Not applicable.
14.6 Special precautions for the user: Not applicable.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance/mixture
SP1 Do not contaminate water with the product or its container.

15.2. Chemical Safety Assessment
A Chemical Safety Assessment per Regulation (EC) No. 1907/2006 is not required and has not been performed.
A Risk Assessment has been performed under Regulation EC 1107/2009.

16. OTHER INFORMATION

The information given here is not necessarily exhaustive but is representative of relevant, reliable data.
Follow all local/regional/national/international regulations.
Please consult supplier if further information is needed.
This Safety Data Sheet has been prepared following the Regulation (EC) No. 1907/2006 (Annex II) as last amended by Regulation (EC) No. 2015/830.
In this document the British spelling was applied.
Data provided in this Safety Data Sheet are for the product as supplied unless otherwise indicated.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium salt of glyphosate</td>
<td>Aquatic Chronic - Category 2</td>
</tr>
<tr>
<td></td>
<td>H411 Toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>Surfactant</td>
<td>Skin corrosion/irritation - Category 2</td>
</tr>
<tr>
<td></td>
<td>Eye damage/irritation - Category 2</td>
</tr>
<tr>
<td></td>
<td>Aquatic Acute - Category 1</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic - Category 1</td>
</tr>
<tr>
<td></td>
<td>H315 Causes skin irritation.</td>
</tr>
<tr>
<td>Minor formulating ingredients</td>
<td>Sodium sulphite</td>
</tr>
<tr>
<td>------------------------------</td>
<td>----------------</td>
</tr>
</tbody>
</table>

H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Endnotes:
{a} EU label (manufacturer self-classification)
{b} EU label (Annex I)
{c} EU CLP classification (Annex VI)
{d} EU CLP (manufacturer self-classification)

Full denomination of most frequently used acronyms: BCF (Bioconcentration Factor), BOD (Biochemical Oxygen Demand), COD (Chemical Oxygen Demand), EC50 (50% effect concentration), ED50 (50% effect dose), I.M. (intramuscular), I.P. (intraperitoneal), I.V. (intravenous), Koc (Soil adsorption coefficient), LC50 (50% lethality concentration), LD50 (50% lethality dose), LDLo (Lower limit of lethal dosage), LEL (Lower Explosion Limit), LOAEC (Lowest Observed Adverse Effect Concentration), LOAEL (Lowest Observed Adverse Effect Level), LOEC (Lowest Observed Effect Concentration), LOEL (Lowest Observed Effect Level), MEL (Maximum Exposure limit), MTD (Maximum Tolerated Dose), NOAEC (No Observed Adverse Effect Concentration), NOAEL (No Observed Adverse Effect Level), NOEC (No Observed Effect Concentration), NOEL (No Observed Effect Level), OEL (Occupational Exposure Limit), PEL (Permissible Exposure Limit), PII (Primary Irritation Index), Pow (Partition coefficient n-octanol/water), S.C. (subcutaneous), STEL (Short-Term Exposure Limit), STOT SE (Specific Target Organ Toxicity, Single Exposure), STOT RE (Specific Target Organ Toxicity, Repeated Exposure), TLV-C (Threshold Limit Value-Ceiling), TLV-TWA (Threshold Limit Value - Time Weighted Average), UEL (Upper Explosion Limit)

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, MONSANTO Company or any of its subsidiaries makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for the purposes prior to use. In no event will MONSANTO Company or any of its subsidiaries be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR TO THE PRODUCT TO WHICH INFORMATION RefERS.

Safety Data Sheet (SDS) Annex

Chemical Safety Report:
Read and follow label instructions.