

# SAFETY DATA SHEET



Revision date 24-Oct-2022

Revision Number 1

## 1. Identification

### Product identifier

Product Name Surmise Pro

### Other means of identification

Product Code(s) 000062

Synonyms None

Registration Number(s) 42750-365-89442

### Recommended use of the chemical and restrictions on use

Recommended use Herbicide

Restrictions on use Follow label instructions

### Details of the supplier of the safety data sheet

#### Company Address

PrimeSource, A Division of Albaugh LLC.  
1525 NE 36th St  
Ankeny, IA 50211 USA

### Emergency telephone number

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident:

- Call CHEMTREC Day or Night within USA and Canada: 1-800-424-9300, Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

For Medical Emergencies Only:

- Call Albaugh LLC Day or Night within USA and Canada: 1-888-347-6732

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

## 2. Hazard(s) identification

### Classification

|  |             |
|--|-------------|
| Acute toxicity - Oral                              | Category 4  |
| Acute toxicity - Dermal                            | Category 4  |
| Acute toxicity - Inhalation (Dusts/Mists)          | Category 4  |
| Reproductive toxicity                              | Category 1B |
| Specific target organ toxicity (repeated exposure) | Category 2  |

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

Danger

### Hazard statements

Harmful if swallowed  
 Harmful in contact with skin  
 Harmful if inhaled  
 May damage fertility or the unborn child  
 May cause damage to organs through prolonged or repeated exposure



**Appearance** No information available

**Physical state** Liquid

**Odor** Slight Aromatic

#### Precautionary Statements - Prevention

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Use only outdoors or in a well-ventilated area  
 Do not breathe dust/fume/gas/mist/vapors/spray

#### Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention  
 IF ON SKIN: Wash with plenty of water and soap  
 Call a POISON CENTER or doctor if you feel unwell  
 Take off contaminated clothing and wash it before reuse  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
 Rinse mouth

#### Precautionary Statements - Storage

Store locked up

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Unknown acute toxicity

39.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Other information

No information available.

### 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

| Chemical name                     | CAS No      | Weight-%  | Active Ingredient |
|-----------------------------------|-------------|-----------|-------------------|
| Glufosinate-ammonium              | 77182-82-2  | 23.8-25.2 | X                 |
| Dipropylene Glycol                | 25265-71-8  | 8.2-9.0   |                   |
| Propylene glycol monomethyl ether | 107-98-2    | 0.9-1.1   |                   |
| Other Ingredients                 | PROPRIETARY | >60.0     |                   |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. First-aid measures

##### Description of first aid measures

|   |  |
|---|--|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance.   |
| <b>Inhalation</b>                         | Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.  |
| <b>Eye contact</b>                        | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.   |
| <b>Skin contact</b>                       | Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.  |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.   |
| <b>Self-protection of the first aider</b> | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information. |

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

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | Coughing and/ or wheezing. Difficulty in breathing. |
|-----------------|---|

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

|                           |                        |
|---------------------------|------------------------|
| <b>Note to physicians</b> | Treat symptomatically. |
|---------------------------|------------------------|

#### 5. Fire-fighting measures

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>                                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Large Fire</b>   | CAUTION: Use of water spray when fighting fire may be inefficient.   |
| <b>Unsuitable extinguishing media</b>                                 | Do not scatter spilled material with high pressure water streams.  |
| <b>Specific hazards arising from the chemical</b>                     | No information available.  |
| <b>Explosion data</b>   |  |
| <b>Sensitivity to mechanical impact</b>                               | None.  |
| <b>Sensitivity to static discharge</b>                                | None.  |
| <b>Special protective equipment and precautions for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

#### 6. Accidental release measures

##### Personal precautions, protective equipment and emergency procedures

|                             |   |
|-----------------------------|---|
| <b>Personal precautions</b> | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid breathing vapors or mists. |
| <b>Other information</b>    | Refer to protective measures listed in Sections 7 and 8.  |

**Methods and material for containment and cleaning up**

|                                |   |
|--------------------------------|---|
| <b>Methods for containment</b> | Prevent further leakage or spillage if safe to do so. |
| <b>Methods for cleaning up</b> | Pick up and transfer to properly labeled containers.  |

**7. Handling and storage****Precautions for safe handling**

|                                |   |
|--------------------------------|---|
| <b>Advice on safe handling</b> | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment. |
|--------------------------------|---|

**Conditions for safe storage, including any incompatibilities**

|                           |  |
|---------------------------|--|
| <b>Storage Conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. |
|---------------------------|--|

**8. Exposure controls/personal protection****Control parameters**

|                        |  |
|------------------------|--|
| <b>Exposure Limits</b> | The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here. |
|------------------------|--|

| Chemical name                                 | ACGIH TLV                    | OSHA PEL   | NIOSH  |
|---|------------------------------|--|--|
| Propylene glycol monomethyl ether<br>107-98-2 | STEL: 100 ppm<br>TWA: 50 ppm | (vacated) TWA: 100 ppm<br>(vacated) TWA: 360 mg/m <sup>3</sup><br>(vacated) STEL: 150 ppm<br>(vacated) STEL: 540 mg/m <sup>3</sup> | TWA: 100 ppm<br>TWA: 360 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 540 mg/m <sup>3</sup> |

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

**Appropriate engineering controls**

|                             |   |
|-----------------------------|---|
| <b>Engineering controls</b> | Showers<br>Eyewash stations<br>Ventilation systems. |
|-----------------------------|---|

**Individual protection measures, such as personal protective equipment**

|                                 |  |
|---------------------------------|--|
| <b>Eye/face protection</b>      | Wear safety glasses with side shields (or goggles).  |
| <b>Hand protection</b>          | Wear suitable gloves.  |
| <b>Skin and body protection</b> | Wear suitable protective clothing. Long sleeved clothing.  |
| <b>Respiratory protection</b>   | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid                   |
| <b>Appearance</b>     | No information available |
| <b>Color</b>          | red                      |
| <b>Odor</b>           | Slight Aromatic          |
| <b>Odor threshold</b> | No information available |

| <u>Property</u>                               | <u>Values</u>     | <u>Remarks • Method</u> |
|---|-------------------|-------------------------|
| <b>pH</b>                                     | 6.0 7.0           |                         |
| <b>pH (as aqueous solution)</b>               |                   |                         |
| <b>Melting point / freezing point</b>         | No data available |                         |
| <b>Boiling point / boiling range</b>          | No data available |                         |
| <b>Flash point</b>                            | No data available |                         |
| <b>Evaporation rate</b>                       | No data available |                         |
| <b>Flammability (solid, gas)</b>              | No data available |                         |
| <b>Flammability Limit in Air</b>              |                   |                         |
| <b>Upper flammability or explosive limits</b> | No data available |                         |
| <b>Lower flammability or explosive limits</b> | No data available |                         |
| <b>Vapor pressure</b>                         | No data available |                         |
| <b>Vapor density</b>                          | No data available |                         |
| <b>Relative density</b>                       | No data available |                         |
| <b>Water solubility</b>                       | No data available |                         |
| <b>Solubility(ies)</b>                        | No data available |                         |
| <b>Partition coefficient</b>                  | No data available |                         |
| <b>Autoignition temperature</b>               | No data available |                         |
| <b>Decomposition temperature</b>              |                   |                         |
| <b>Kinematic viscosity</b>                    | 199.8 @ 20C       |                         |
| <b>Dynamic viscosity</b>                      | No data available |                         |

### Other information

|                             |                          |
|-----------------------------|--------------------------|
| <b>Explosive properties</b> | No information available |
| <b>Oxidizing properties</b> | No information available |
| <b>Softening point</b>      | No information available |
| <b>Molecular weight</b>     | No information available |
| <b>VOC Content (%)</b>      | No information available |
| <b>Liquid Density</b>       | 1.151*                   |
| <b>Bulk density</b>         | No information available |

\*Listed density is an approximate value and does not necessarily represent that of a specific batch

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | No information available.                 |
| <b>Chemical stability</b>                 | Stable under normal conditions.           |
| <b>Possibility of hazardous reactions</b> | None under normal processing.             |
| <b>Conditions to avoid</b>                | Excessive heat.                           |
| <b>Incompatible materials</b>             | None known based on information supplied. |
| <b>Hazardous decomposition products</b>   | None known based on information supplied. |

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components). |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available.   |
| <b>Skin contact</b> | May be absorbed through the skin in harmful amounts. Harmful in contact with skin. (based on components).       |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).  |

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Coughing and/ or wheezing.

### Acute toxicity

#### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                 |
|--------------------------------------|-----------------|
| <b>ATEmix (inhalation-dust/mist)</b> | 3.55 mg/l       |
| <b>ATEmix (inhalation-vapor)</b>     | 2,056.2815 mg/l |

#### Unknown acute toxicity

39.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

|                    |               |
|--------------------|---------------|
| <b>Oral LD50</b>   | > 2,000 mg/kg |
| <b>Dermal LD50</b> | > 2,000 mg/kg |

#### Component Information

| Chemical name                                    | Oral LD50                                    | Dermal LD50                                  | Inhalation LC50                                    |
|--|--|--|--|
| Glufosinate-ammonium<br>77182-82-2               | = 1620 mg/kg ( Rat )<br>= 1510 mg/kg ( Rat ) | > 4000 mg/kg ( Rat ) = 1380<br>mg/kg ( Rat ) | = 1.26 mg/L ( Rat ) 4 h > 0.62<br>mg/L ( Rat ) 4 h |
| Dipropylene Glycol<br>25265-71-8                 | = 14850 mg/kg ( Rat )                        | > 20 mL/kg ( Rabbit )                        | -  |
| Propylene glycol monomethyl<br>ether<br>107-98-2 | = 5000 mg/kg ( Rat )                         | = 13 g/kg ( Rabbit )                         | > 7559 ppm ( Rat ) 6 h                             |

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>         | No information available.   |
| <b>Serious eye damage/eye irritation</b> | No information available.   |
| <b>Respiratory or skin sensitization</b> | No information available.   |
| <b>Germ cell mutagenicity</b>            | No information available.   |
| <b>Carcinogenicity</b>                   | No information available.   |
| <b>Reproductive toxicity</b>             | Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child. |

|                                 |  |
|---------------------------------|--|
| <b>STOT - single exposure</b>   | No information available.  |
| <b>STOT - repeated exposure</b> | May cause damage to organs through prolonged or repeated exposure. |
| <b>Target organ effects</b>     | Respiratory system, Eyes, Skin, Central nervous system.            |
| <b>Aspiration hazard</b>        | No information available.  |
| <b>Other adverse effects</b>    | No information available.  |
| <b>Interactive effects</b>      | No information available.  |

## 12. Ecological information

### Ecotoxicity

| Chemical name                                    | Algae/aquatic plants | Fish  | Toxicity to microorganisms | Crustacea                                |
|--|----------------------|---|----------------------------|--|
| Dipropylene Glycol<br>25265-71-8                 | -                    | LC50: >5000mg/L (24h,<br>Carassius auratus)   | -                          | -  |
| Propylene glycol<br>monomethyl ether<br>107-98-2 | -                    | LC50: ≈20.8g/L (96h,<br>Pimephales promelas)<br>LC50: 4600 - 10000mg/L<br>(96h, Leuciscus idus) | -                          | EC50: ≈23300mg/L (48h,<br>Daphnia magna) |

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

### Component Information

| Chemical name                                 | Partition coefficient |
|---|-----------------------|
| Propylene glycol monomethyl ether<br>107-98-2 | -0.437                |

**Other adverse effects** No information available.

## 13. Disposal considerations

### Disposal methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. Transport information

**DOT** Not regulated

**IATA** Not regulated

## 15. Regulatory information

### U.S. EPA Label Information

**EPA Pesticide Registration Number** 42750-365-89442

**EPA Pesticide Label** CAUTION: Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes,

or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### International Inventories

|                      |                 |
|----------------------|-----------------|
| <b>TSCA</b>          | Does not comply |
| <b>DSL/NDSL</b>      | Does not comply |
| <b>EINECS/ELINCS</b> | Does not comply |
| <b>ENCS</b>          | Does not comply |
| <b>IECSC</b>         | Does not comply |
| <b>KECL</b>          | Does not comply |
| <b>PICCS</b>         | Does not comply |
| <b>AIIC</b>          | Does not comply |

#### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AIIC** - Australian Inventory of Industrial Chemicals

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

| Chemical name                        | New Jersey | Massachusetts | Pennsylvania |
|--------------------------------------|------------|---------------|--------------|
| Water<br>7732-18-5                   | -          | -             | X            |
| Dipropylene Glycol<br>25265-71-8     | -          | -             | X            |
| Propylene glycol monomethyl<br>ether | X          | X             | X            |



|          |  |  |  |
|----------|--|--|--|
| 107-98-2 |  |  |  |
|----------|--|--|--|

## 16. Other information

|                                   |                                  |                       |                           |                              |
|-----------------------------------|----------------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b>                       | <b>Health hazards</b> 2          | <b>Flammability</b> 0 | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b>                       | <b>Health hazards</b> 2 *        | <b>Flammability</b> 0 | <b>Physical hazards</b> 0 | <b>Personal protection</b> X |
| <i>Chronic Hazard Star Legend</i> | <i>* = Chronic Health Hazard</i> |                       |                           |                              |

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Legend Section 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

**Revision date** 24-Oct-2022  
**Revision Note** No information available.

#### Disclaimer

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

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**End of Safety Data Sheet**