SAFETY DATA SHEET
Surpass Pro

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Name of the substance: Surpass Pro
Code: 15368 PPPR
Formulation type: SC (aqueous suspension concentrate)
Concentration: 250 g/L (23% w/w)
Active substance: iprodione
IUPAC-name: 3-(3,5-dichlorophenyl)-2,4-dioxo-N-isopropylimidazolidine-1-carboxamide
Identification number: 36734-19-7
RRN: No registration number is available for this substance, in accordance with the provisions of Article 15 of Regulation (EC) No 1907/2006

1.2 Relevant identified uses of the substance or mixture and uses advised against
identified uses: fungicide for professional use

1.3 Details of the supplier of the safety data sheet
HEADLAND AMENITY LIMITED
110 Cambourne Business Park
Cambourne, Cambridgeshire CB23 6DP
United Kingdom
Tel.: +44 1223 597834
Fax: +44 1223 598052
Email: info@headlandamenity.com

1.4 Emergency telephone number
Please call the local emergency number
Emergency number (24h/24, 7d/7): +32 11 69 79 80

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Carc. 2, Aquatic Chronic 2
H351, H411

Classification according to Directive 67/548/EEC or 1999/45/EC
Xn, N, Carc. Cat. 3
R40, R51/53

For full text of R-phrases and/or Hazard-statements see section 16.
2.2 Label elements

Label in accordance with Regulation (EC) No 1272/2008

Hazard pictogram

Signal word
Warning

hazard statement
H351: Suspected of causing cancer.
H411: Toxic to aquatic life with long lasting effects.
EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.

precautionary statement
P201: Obtain special instructions before use.
P280: Wear protective gloves/protective clothing
P308 + P313: IF exposed or concerned: Get medical advice/attention.
P391: Collect spillage.
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.

Label in accordance with Directive 67/548/EEC or 1999/45/EC

Symbols:

Risk phrases
R40: Limited evidence of a carcinogenic effect.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety advice
S2: Keep out of the reach of children.
S13: Keep away from food, drink and animal feedingstuffs.
S20/21: When using do not eat, drink or smoke.
S23: Do not breathe spray.
S35: This material and its container must be disposed of in a safe way.
S36/37: Wear suitable protective clothing and gloves.
S46: If swallowed, seek medical advice immediately and show this container or label.
S57: Use appropriate container to avoid environmental contamination.
S61: Avoid release to the environment. Refer to special instructions/safety data sheets.
2.3 Other hazards

The active substance does not fulfill the criteria of a persistent, bioaccumulative and toxic (PBT) substance, nor of a very persistent and very bioaccumulative (vPvB) substance, as outlined in Annex XIII of Regulation (EC) No 1907/2006.

### Section 3: Composition/information on ingredients

#### 3.2 Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Identification number</th>
<th>RRN</th>
<th>% (% by weight)</th>
<th>Classification according to Directive 67/548/EEC or 1999/45/EC</th>
<th>Classification according to Regulation (EC) No 1272/2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>iprodione</td>
<td>36734-19-7</td>
<td>not available</td>
<td>250 g/L</td>
<td>Carc. Cat. 3, N R40, R50/53</td>
<td>Carc. 2, Aquatic Acute 1, Aquatic Chronic 1 H351, H400, H410</td>
</tr>
<tr>
<td>propane-1,2-diol</td>
<td>57-55-6</td>
<td>not available</td>
<td>&lt;5% w/w</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>sodium hydroxide</td>
<td>1310-73-3</td>
<td>01-2119457892-27</td>
<td>&lt;0.01% w/w</td>
<td>C R35</td>
<td>Skin Corr. 1A H314</td>
</tr>
</tbody>
</table>

For full text of R-phrases and/or Hazard-statements see section 16.

### Section 4: First aid measures

#### 4.1 Description of first aid measures

If INHALED:
Fresh air, rest. In case of symptoms, seek medical attention and show the label or packaging.

In case of contact with SKIN:
Rinse the skin with plenty of water or take a shower for 15 minutes. Meanwhile, remove contaminated clothing and shoes. In case of symptoms, seek medical attention and show the label or packaging.

In case of contact with EYES:
Rinse thoroughly with water for 10 minutes. Rinse AWAY from the non-affected eye. If wearing contact lenses: if easy to remove, first remove the lenses, then rinse. Consult a doctor and show the label or packaging.

If SWALLOWED:
Rinse the mouth. Consult a doctor immediately and show the label or packaging.

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

No data available in humans. The symptoms mentioned below were observed in animal studies.

**INHALATION**: No information available.
**SWALLOWING**: Drowsiness, loss of coordination.
**SKIN contact**: No irritating effects were observed.
**EYE contact**: Mild erythema, slightly swollen eyes. The symptoms are reversible.

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

Notes to physician:
Since no or very few cases have been reported in humans, observation in the hospital is recommended after ingestion.
Section 5 : Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: chemical powder, water spray, CO₂

Unsuitable extinguishing media: Water with full jet (polyvalent foam may not be suitable as an extinguishing medium as the product contains an antifoaming agent).

5.2 Special hazards arising from the substance or mixture

The product contains flammable organic substances. In case of a fire, a thick black smoke containing hazardous products of combustion will be generated (see section 10). Exposure to decomposition products can be harmful to one's health.

5.3 Advice for fire-fighters

Self-contained breathing apparatus and full protective clothing (boots, overall, gloves, eye and face protection). Avoid discharge of extinguish water into sewer or watercourse.

Section 6 : Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

See section 8

6.2 Environmental precautions

Prevent the product from entering into soil, sewers, surface or ground water. If necessary, isolate the contaminated area. First remove spillage and accidental leaks (see section 6.3). Then rinse the contaminated area with water. Do not allow residues to enter into sewer and surface water. Dispose contaminated water according to local legislation. Inform the authorities if product pollutes the environment.

6.3 Methods and material for containment and cleaning up

6.3.1 Containment of a spill

If applicable, cover spillage with absorbing material (sand, clay, diatomite, universal binders, absorbing grain).

6.3.2 Clean-up of a spill

Spills shall be contained by means of absorbent material and a shovel. The collected products shall be disposed of in re-usable barrels or barrels for waste removal. As soon as the substance has been removed, thoroughly clean up the floor and any object that has been in contact with the substance in compliance with the environmental prescriptions.

6.3.3 Additional information

No additional information

6.4 Reference to other sections

See section 1 contact information
See section 7 for handling and storage
See section 8 for exposure controls/ personal protection
See section 13 for disposal considerations
Section 7 : Handling and storage

7.1 Precautions for safe handling

7.1.1 Protective measurements
Work under local exhaust/ventilation. Observe normal industrial and hygiene standards. Wear personnel protective clothing. Avoid contact with skin and eyes. Avoid forming of aerosol or dust. Wash hands after use. Do not discharge product into sewer. Keep away from source of ignition.

7.1.2 Advice on general occupational hygiene
When using, do not eat, drink or smoke. Clean used material. Wash hands after each use. Wash contaminated clothing after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities
Store in closed packaging in a dry, well ventilated area. Store in original packaging. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. See also section 10.

7.3 Specific end use(s)
See section 1.2.

Section 8 : Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational exposure limit values
propane-1,2-diol, particulates (CAS 57-55-6):
limit value (8h): 10 mg/m³ (UK)
propane-1,2-diol, total vapour and particulates (CAS 57-55-6):
limit value (8h): 150 ppm, 474 mg/m³ (UK)
sodium hydroxide (CAS 1310-73-2):
limit value (short term): 2 mg/m³ (UK)

8.1.2 Information on currently recommended monitoring procedures
Not known

8.2 Exposure controls

8.2.1 Appropriate engineering controls
See section 7 and 8.1.1.

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye / face protection
Wear safety goggles, with side-protection.
8.2.2.2 Skin protection

8.2.2.2.1 Hand protection

Wear chemical protective gloves (EN374).

8.2.2.2 other

Wear suitable work clothes. (Coverall with full body protection)

8.2.2.3 Respiratory protection

Use always in a well ventilated area.
Only if applicable:
Gas, vapours: gas filter: semi-facial mask with ABEK filter.
Dust, mist, fumes: dust mask : P2FFP2

8.2.3 Environmental exposure controls

See section 6: Accidental release measures
See section 7: storage and handling
See section 13: Disposal considerations

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Section 9 : Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Endpoint (unit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Appearance: mint green liquid</td>
</tr>
<tr>
<td>b) Odour: plastic odour</td>
</tr>
<tr>
<td>c) Odour threshold: no data available</td>
</tr>
<tr>
<td>d) pH: 5.5 (1% solution)</td>
</tr>
<tr>
<td>e) Melting point/freezing point: no data available</td>
</tr>
<tr>
<td>f) Initial boiling point and boiling range: no data available</td>
</tr>
<tr>
<td>g) Flash point: &gt;95°C</td>
</tr>
<tr>
<td>h) Evaporation rate: no data available</td>
</tr>
<tr>
<td>i) Flammability (solid, gas): not relevant for liquid formulations</td>
</tr>
<tr>
<td>j) Upper/lower flammability or explosive limits: no data available</td>
</tr>
<tr>
<td>k) Vapour pressure: no data available</td>
</tr>
<tr>
<td>l) Vapour density: no data available</td>
</tr>
<tr>
<td>m) Relative density: 1.08526 g/ml</td>
</tr>
<tr>
<td>n) Solubility(ies): no data available</td>
</tr>
<tr>
<td>o) Partition coefficient: n-octanol/water: log Pow = 3 (pH 3-5) (active substance)</td>
</tr>
<tr>
<td>p) Auto-ignition temperature: not auto-flammable below 400 °C</td>
</tr>
<tr>
<td>q) Decomposition temperature: not relevant</td>
</tr>
<tr>
<td>r) Viscosity: 1576 mPa.s (at shear rate of 2s-1 and 20°C)</td>
</tr>
<tr>
<td>s) Explosive properties: no explosive properties</td>
</tr>
<tr>
<td>t) Oxidising properties: no oxidising properties</td>
</tr>
</tbody>
</table>

9.2 Other information

No additional information
Section 10 : Stability and reactivity

10.1 Reactivity
Stable under normal conditions of handling and storage.

10.2 Chemical stability
Stable under normal environmental temperatures (between 0°C and 40°C). See also section 7.2.

10.3 Possibility of hazardous reactions
No specific data known.

10.4 Conditions to avoid
No specific data known.

10.5 Incompatible materials
No specific data known.

10.6 Hazardous decomposition products
Combustion or thermal decomposition produce toxic and irritating vapours. See section 5.3

Section 11 : Toxicological information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>endpoint</th>
<th>duration</th>
<th>species</th>
<th>tested on</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) acute toxicity</td>
<td>oral: LD50 &gt; 2000 mg/kg bw</td>
<td>single dose</td>
<td>rat</td>
</tr>
<tr>
<td></td>
<td>dermal: LD50 &gt; 2000 mg/kg bw</td>
<td>24h exposure</td>
<td>rat</td>
</tr>
<tr>
<td></td>
<td>inhalation: LC50 &gt; 5.16 mg/l air</td>
<td>4h exposure</td>
<td>rat</td>
</tr>
<tr>
<td>b) skin corrosion/irritation</td>
<td>non-irritant</td>
<td>4h exposure</td>
<td>rabbit</td>
</tr>
<tr>
<td>c) serious eye damage/irritation</td>
<td>non-irritant</td>
<td>single dose</td>
<td>rabbit</td>
</tr>
<tr>
<td>d) respiratory or skin sensitization</td>
<td>non-sensitiser (M&amp;K test)</td>
<td>24h</td>
<td>guinea pig</td>
</tr>
<tr>
<td>e) germ cell mutagenicity</td>
<td>no genotoxic potential</td>
<td>multiple in vitro and in vivo test systems</td>
<td>active substance (technical)</td>
</tr>
<tr>
<td>f) carcinogenicity</td>
<td>NOAEL= 6.1 mg/kg bw/day</td>
<td>2 year</td>
<td>rat</td>
</tr>
<tr>
<td>g) reproductive toxicity</td>
<td>NOAEL/NOEL = 17 mg/kg bw/day</td>
<td>two generation study</td>
<td>rat</td>
</tr>
<tr>
<td>h) STOT-single exposure</td>
<td>no data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i) STOT-repeated exposure</td>
<td>no data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>j) aspiration hazard</td>
<td>no data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
12.1 Toxicity

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Duration</th>
<th>Species</th>
<th>Tested on</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity fish</td>
<td>LC50 &gt; 48 mg/L</td>
<td><em>Oncorhynchus mykiss</em></td>
<td>formulated product</td>
</tr>
<tr>
<td>Acute toxicity invertebrates</td>
<td>EC50 = 8.64 mg/L</td>
<td><em>Daphnia magna</em></td>
<td>formulated product</td>
</tr>
<tr>
<td>Algae</td>
<td>EC50 (yield) = 13.47 mg/L</td>
<td><em>Pseudokirchneriella subcapitata</em></td>
<td>formulated product</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

DT50 (soil) = 126 days  
DT50 (photolysis) = 67 days  
DT50 (water) < 6 hours  
DT50 (water/sediment) < 30 days  
(active substance (technical) data)

12.3 Bioaccumulative potential

\[ \log \text{Pow} = 3 \text{ (pH 3-5)} \] (active substance)  
Bioconcentration factor (BCF) = 70 (active substance (technical))

12.4 Mobility in soil

\[ \text{Koc} = 202 - 543 \text{ mL/g} \] (moderately to slightly mobile) (active substance (technical))

12.5 Results of PBT and vPvB assessment

The active substance does not fulfill the criteria of a persistent, bioaccumulative and toxic (PBT) substance, nor of a very persistent and very bioaccumulative (vPvB) substance, as outlined in Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects

/

Section 13 : Disposal considerations

13.1 Waste treatment methods

Product waste: prevent spreading. To be disposed of in compliance with local and national prescriptions.  
Polluted packages: Do not re-use empty packages. If required, rinse 3 times. To be disposed of in compliance with local and national prescriptions.
Section 14: Transport information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR classification</th>
<th>IMDG classification</th>
<th>IATA classification</th>
</tr>
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<tbody>
<tr>
<td>3082</td>
<td>3082</td>
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</table>

<table>
<thead>
<tr>
<th>14.2 UN proper shipping name</th>
<th>ADR classification</th>
<th>IMDG classification</th>
<th>IATA classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>environmentally hazardous substance, liquid, N.O.S. (iprodione)</td>
<td>environmentally hazardous substance, liquid, N.O.S. (iprodione)</td>
<td>environmentally hazardous substance, liquid, N.O.S. (iprodione)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.3 Transport hazard class(es)</th>
<th>ADR classification</th>
<th>IMDG classification</th>
<th>IATA classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
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</table>

<table>
<thead>
<tr>
<th>14.4 Packing group</th>
<th>ADR classification</th>
<th>IMDG classification</th>
<th>IATA classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td>III</td>
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</table>

<table>
<thead>
<tr>
<th>14.5 Environmental hazards</th>
<th>ADR classification</th>
<th>IMDG classification</th>
<th>IATA classification</th>
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<tbody>
<tr>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>14.6 Special precautions for user</th>
<th>ADR classification</th>
<th>IMDG classification</th>
<th>IATA classification</th>
</tr>
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<tbody>
<tr>
<td>Symbols:</td>
<td>Symbols:</td>
<td>Symbols:</td>
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</tr>
<tr>
<td>Tunnel code: E</td>
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<td></td>
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<table>
<thead>
<tr>
<th>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</th>
<th>ADR classification</th>
<th>IMDG classification</th>
<th>IATA classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable for road transport</td>
<td>Not applicable (not transported as bulk)</td>
<td>Not applicable for air transport</td>
<td></td>
</tr>
</tbody>
</table>

Section 15 : Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SEVESO category: not known

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16 : Other information

Relevant H-phrases / R-phrases

R40: Limited evidence of a carcinogenic effect.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R35: Causes severe burns.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H351: Suspected of causing cancer.
H411: Toxic to aquatic life with long lasting effects.
H314: Causes severe skin burns.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

List of abbreviations and acronyms
RRN: REACH registration number

Changes to the previous version of safety data sheet.
Section 2: CLP implementation

The information presented in this SDS is based on the current knowledge of the product and is derived from the existing literature. It is given in good faith and it only illustrates the aspect of security. This SDS is in addition with our information relating to the use of the formulation but in no case replaces it. The users must be aware of the necessary precautions to take at the time of use or handling of this product. Consequently, the company can in no case be held responsible for damage which results, directly or indirectly, from the use of these data.