SAFETY DATA SHEET
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

Blanco
Revision Date 17-Nov-2014
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Version 1
Product No HRB00898-44

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Blanco
Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended Use Herbicide
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet
Supplier Address ADAMA Agricultural Solutions UK Ltd
Unit 15, Thatcham Buisness Village Colthrop Way,
Thatcham Berkshire RG19 4LW, UK : 01635 860555
Fax: 01635 861555

For further information, please contact
Email address ukenquiries@adama.com

1.4. Emergency telephone number
Emergency Telephone National Chemical Emergency Centre (UK):
Tel: 01865 407333 (24 hours)

Section 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hazardous to the Aquatic Category 3 - (H412)
Environment - Chronic Hazard

Classification according to Directive 67/548/EEC or 1999/45/EC
Full text of R-phrases: see section 16
R52-53

2.2. Label elements
Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

Signal word  none

Hazard Statements  H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements  P102 - Keep out of reach of children  P501 - Dispose of contents/container to an approved waste disposal plant

EU Specific Hazard Statements  EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

Additional phrases for PPP  SP1 - Do not contaminate water with the product or its container

2.3. Other hazards
No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight-%</th>
<th>CAS No</th>
<th>EC No</th>
<th>Index No</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Classification according to 67/548/EEC</th>
<th>M-Factor</th>
<th>REACH Registration Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clomazone</td>
<td>29-32</td>
<td>81777-89-1</td>
<td>-</td>
<td>-</td>
<td>Acute Tox. 4 (H302)  Aquatic Chronic 3 (H412)</td>
<td>Xn; R22  R52-53</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Full text of R-phrases: see section 16  
Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice  In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!

Inhalation  Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Skin Contact  Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Eye contact  Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Ingestion  Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

Self-protection of the first aider  Use personal protective equipment as required.

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

Symptoms  None known
4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
No information available.

5.2. Special hazards arising from the substance or mixture

No specific hazard known.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus
In the event of fire and/or explosion do not breathe fumes

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Use only with adequate ventilation.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Other Information
See also section 8,13

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling
Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

General Hygiene Considerations
When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

7.3. Specific end use(s)

Risk Management Methods (RMM)
The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Derived No Effect Level (DNEL) No information available
Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.
Personal protective equipment
Eye/face protection Tight sealing safety goggles.
Body Protection Suitable protective clothing.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>light brown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Faint</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
<td>CIPAC MT 75.3</td>
<td>solution (1 %)</td>
</tr>
<tr>
<td>pH</td>
<td>7 - 9</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting point/freezing point °C</td>
<td>----</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range °C</td>
<td>No data available</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flash point °C</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure kPa</td>
<td>----</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
<td>CIPAC MT 3.3</td>
<td>g/ml</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.188</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Solubility(ies) mg/l</td>
<td>----</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water) Log Pow</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature °C</td>
<td>365</td>
<td>EEC A.15</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature °C</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity mm2/s 40 °C</td>
<td>1650</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not an explosive</td>
<td>EEC A.14</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidizing</td>
<td>EEC A.21</td>
<td></td>
</tr>
</tbody>
</table>
9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk density g/ml</td>
<td>****</td>
</tr>
<tr>
<td>Surface tension mN/m</td>
<td>62.6</td>
</tr>
<tr>
<td>Minimum ignition energy (MIE) mJ</td>
<td>Not Applicable</td>
</tr>
<tr>
<td></td>
<td>25 °C</td>
</tr>
</tbody>
</table>

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity
Not available.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid
Heat, flames and sparks.

10.5. Incompatible materials
No information available

10.6. Hazardous decomposition products
None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Values</th>
<th>Species</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50 mg/kg</td>
<td>&gt; 2000</td>
<td>Rat</td>
<td>OECD 423</td>
<td>Maximum attainable concentration</td>
</tr>
<tr>
<td>Dermal LD50 mg/kg</td>
<td>&gt; 2000</td>
<td>Rat</td>
<td>OECD 402</td>
<td></td>
</tr>
<tr>
<td>Inhalation LC50 mg/l/4h</td>
<td>&gt; 1.8</td>
<td>Rat</td>
<td>OECD 403</td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Non-irritating to the skin
Serious eye damage/eye irritation: Not irritating to eyes
Respiratory/skin sensitization: Not a skin sensitizer

Chronic toxicity

Germ cell mutagenicity
Chemical Name: Clomazone
Not classified

Carcinogenicity
Chemical Name: Clomazone
Not Carcinogenic

Reproductive toxicity
Chemical Name: Clomazone
Not toxic for the reproductive system
Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

<table>
<thead>
<tr>
<th>Species</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish 96-hour LC50 mg/l</td>
<td>&gt; 100</td>
<td>Rainbow trout</td>
<td>OECD 203</td>
</tr>
<tr>
<td>Crustacea 48-hour EC50 mg/l</td>
<td>&gt; 100</td>
<td>Daphnia magna</td>
<td>OECD 202</td>
</tr>
<tr>
<td>Algae 72-hour EC50 mg/l</td>
<td>&gt; 100</td>
<td>N. pelliculosa</td>
<td>OECD 201</td>
</tr>
<tr>
<td>Other plants EC50 mg/l</td>
<td>75.6</td>
<td>Lemma minor</td>
<td>OECD 221, 7 days</td>
</tr>
</tbody>
</table>

Terrestrial Toxicity

Birds Oral LD50 mg/kg

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Values</th>
<th>Species</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clomazone</td>
<td>2000</td>
<td>Japanese quail</td>
<td>EPA-OPPTS 850.2100</td>
<td></td>
</tr>
</tbody>
</table>

Bees Oral LD50 μg/bee

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Values</th>
<th>Species</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clomazone</td>
<td>91</td>
<td></td>
<td>OECD 213, OECD 214</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Abiotic Degradation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clomazone</td>
<td>66.9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Soil DT50 days

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clomazone</td>
<td>62.9 - 130.8</td>
<td>SETAC 1995</td>
<td>20°C</td>
</tr>
</tbody>
</table>

Biodegradation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clomazone</td>
<td>Not readily biodegradable</td>
<td>OECD 301 F</td>
<td></td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

Partition Coefficient (n-octanol/water) Log Pow

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clomazone</td>
<td>2.49</td>
<td>OECD 107</td>
<td>pH 7, 32°C</td>
</tr>
</tbody>
</table>

Bioconcentration factor (BCF)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clomazone</td>
<td>----</td>
<td></td>
<td>Low</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
12.5. Results of PBT and vPvB assessment
The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects
No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Waste from residues/unused products
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging
Improper disposal or reuse of this container may be dangerous and illegal.

Other Information
Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO
14.1 UN/ID No  Not regulated
14.2 Proper shipping name  Not regulated ( )
14.3 Hazard Class  Not regulated
14.4 Packing Group  Not regulated
14.5 Marine pollutant  Not regulated
14.6 Special precautions for user

RID/ADR
14.1 UN/ID No  Not regulated
14.2 Proper shipping name  Not regulated ( )
14.3 Hazard Class  Not regulated
14.4 Packing Group  Not regulated
14.5 Environmental hazard  Not regulated
14.6 Special precautions for user

ICAO/IATA
14.1 UN/ID No  Not regulated
14.2 Proper shipping name  Not regulated ( )
14.3 Hazard Class  Not regulated
14.4 Packing Group  Not regulated
14.5 Environmental hazard  Not regulated
14.6 Special precautions for user
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  Not Applicable

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.2. Chemical safety assessment
A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

Section 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3
R22 - Harmful if swallowed
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3
H302 - Harmful if swallowed
H412 - Harmful to aquatic life with long lasting effects

Revision Note
*** - Change from previous version.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
The information provided in this Material 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.

End of Safety Data Sheet