1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification of the product

Product code          HBT08
Product Description:  TARGET SC
Synonyms             METAMITRON 700 G/L SC
Pure substance/preparation  Preparation

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use        Herbicide

1.3 Details of the Supplier of the Safety Data Sheet

Supplier         UPL Europe Ltd
                  The Centre
                  Birchwood Park
                  Warrington
                  WA3 6YNCheshire
                  UK
                  Tel.: +44 (0) 1925 819999
                  Fax: +44 (0) 1925 856075
                  E-mail address  info.uk@uniphos.com

1.4 Emergency Telephone Number

Emergency telephone number  (CARECHEM 24): +44 (0) 1235 239670
United Kingdom         NHS no. 111
2. Hazards Identification

2.1 Classification of the mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)
- Xn - Harmful
- N - Dangerous for the environment

R-code(s)
- Xn;R22 N;R50

For the full text of the R phrases mentioned in this Section, see Section 16

Classification according to regulation (EC) No 1272/2008 (CLP)

Acute oral toxicity
- Category 4 - H302

Chronic aquatic toxicity
- Category 2 - H411

For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 Label elements

Labelling according to EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)
- Xn - Harmful
- N - Dangerous for the environment

R-phrase(s)
- R22 - Harmful if swallowed
- R50 - Very toxic to aquatic organisms

S-phrase(s)
- 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 vapour
- S46 - If swallowed, seek medical advice immediately and show this container or label
- S35 - This material and its container must be disposed of in a safe way
- S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets

Labelling according Regulation (EC) No 1272/2008 (CLP)

signal word
- WARNING
hazard statements
H302 - Harmful if swallowed
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)
P270 - Do not eat, drink or smoke when using this product
P273 - Avoid release to the environment
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
P391 - Collect spillage
P501 - Dispose of contents/ container in accordance with national regulation

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

2.3 Other Hazards

No information available

### 3. Composition/information on Ingredients

#### 3.2. MIXTURES

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC No</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Classification (Dir.67/548)</th>
<th>EU - GHS Substance Classification</th>
<th>REACH No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metamitron</td>
<td>255-349-3</td>
<td>41394-05-2</td>
<td>50 - 60</td>
<td>Xn; R22 N; R50</td>
<td>Acute Tox. 4 (H302) Aquatic Acute 1 (H400)</td>
<td>no data available</td>
</tr>
<tr>
<td>Nonionic proprietary surfactant blend</td>
<td>-</td>
<td>-</td>
<td>1 - 5</td>
<td>Xn; R22 Xi; R41 N; R50</td>
<td>Eye Dam. 1 (H318) Acute Tox. 4 (H302) Aquatic Acute 1 (H400)</td>
<td>no data available</td>
</tr>
</tbody>
</table>

For the full text of the R phrases mentioned in this Section, see Section 16

For the full text of the H-Statements mentioned in this Section, see Section 16
4. First aid measures

4.1 Description of first-aid measures

General advice
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Eye contact
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists, consult a specialist

Skin contact
Wash off immediately with plenty of water
If symptoms persist, call a physician

Ingestion
Rinse mouth with water
Call a POISON CENTER or doctor/physician if you feel unwell

Inhalation
Move to fresh air
Call a POISON CENTER or doctor/physician if you feel unwell

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water spray
Dry powder
Foam
Carbon dioxide (CO2)

Unsuitable extinguishing media
No information available.

5.2 Special hazards arising from the substance or mixture

Special Hazard
Thermal decomposition may release toxic fumes.

5.3 Advice for Firefighters

Wear self-contained breathing apparatus and protective suit
6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Evacuate personnel to safe areas

6.2 Environmental Precautions
Prevent further leakage or spillage if safe to do so
Do not allow material to contaminate ground water system
Do not flush into surface water or sanitary sewer system

6.3 Methods and materials for containment and cleaning up
Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

7. Handling and Storage

7.1 Precautions for Safe Handling
Handling
Provide adequate ventilation
Wear personal protective equipment
Ensure that eyewash stations and safety showers are close to the workstation location

Hygiene Measures
Use only outdoors or in a well-ventilated area
Wash hands after handling

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place

7.3 Specific end uses
No information available.
8. Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Limits
Apply technical measures to comply with the occupational exposure limits

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 protection
Safety glasses with side-shields.

Skin protection
Long sleeved clothing.

Hand protection
Protective gloves.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

Environmental exposure controls
No information available.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>VALUES</th>
<th>Remarks/ Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>appearance</td>
<td>white</td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>6.53</td>
<td>(1% solution)</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>flash point</td>
<td>&gt; 76 °C</td>
<td>No information available</td>
</tr>
<tr>
<td>flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Surface tension</td>
<td>38.7-43.6 mN/m</td>
<td></td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1,2058</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Miscible with water</td>
<td></td>
</tr>
<tr>
<td>Solubility in Other Solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>decomposition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>viscosity</td>
<td>0,1371-0,1914 mPa.s</td>
<td>Dynamic viscosity</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Non oxidizing</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

9.2 OTHER INFORMATION

VOC Content
No information available
10. Stability and Reactivity

10.1 Reactivity
No information available.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
No information available.

10.4 Conditions to avoid
Keep away from open flames, hot surfaces and sources of ignition

10.5 Incompatible Materials
Strong acids
Strong oxidizing agents

10.6 Hazardous Decomposition Products
Thermal decomposition giving flammable and toxic products.

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute toxicity

Local effects

Inhalation: There is no data available for this product.
Eye contact: No eye irritation.
Skin contact: No skin irritation.
Ingestion: There is no data available for this product.

LD50 Oral: 2000 mg/kg (rat)
LD50 Dermal: > 2000 mg/kg (rat)

Chronic toxicity

Skin Corrosion/Irritation: No information available.
sensitization: skin: Did not cause sensitization.
Carcinogenic effects: No information available
Mutagenic effects: No information available
Reproductive effects: No information available
STOT - Single Exposure: No information available.
STOT - Repeated Exposure: No information available.
12. Ecological Information

12.1 Toxicity

EC50/72h/algae = 2.25 mg/l
EC50/48h/daphnia = 98.8 mg/L

12.2 Persistence and Degradability

No information available

12.3 Bioaccumulative Potential

No information available

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metamitron</td>
<td>0.83</td>
</tr>
</tbody>
</table>

12.4 Mobility in Soil

No information available.

12.5 Results of PBT and vPvB Assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other Adverse Effects

No information available.

13. Disposal Considerations

13.1 Waste Treatment Methods

<table>
<thead>
<tr>
<th>Waste from Residues / Unused Products</th>
<th>Dispose of in accordance with local regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contaminated packaging</td>
<td>Empty containers should be taken for local recycling, recovery or waste disposal.</td>
</tr>
<tr>
<td>EWC waste disposal No</td>
<td>020108 - agrochemical waste containing dangerous substances.</td>
</tr>
</tbody>
</table>

OTHER INFORMATION

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
14. Transport Information

ADR/RID
14.1 UN-No UN3082
14.2 Proper shipping name Environmentally hazardous substance, liquid, n.o.s. Metamitron
14.3 Hazard class 9
14.4 Packing group III
14.5 Environmental Hazard DANGEROUS FOR THE ENVIRONMENT
14.6 Special Provisions 274, 335, 601
   Tunnel restriction code (E)

IMDG/IMO
14.1 UN-No UN3082
14.2 Proper shipping name Environmentally hazardous substance, liquid, n.o.s Metamitron
14.3 Hazard class 9
14.4 Packing group III
14.5 Environmental Hazard Marine Pollutant
14.6 Special Provisions 274, 335

IATA/ICAO
14.1 UN-No UN3082
14.2 Proper shipping name Environmentally hazardous substance, liquid, n.o.s Metamitron
14.3 Hazard class 9
14.4 Packing group III
14.5 Environmental Hazard DANGEROUS FOR THE ENVIRONMENT
14.6 Special Provisions A97, A158

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Registration n° MAPP 13307

- To avoid risks to man and the environment, comply with the instructions for use

International Inventories

TSCA Complies
EINECS/ELINCS Complies
DSL/NDSL Complies
PICCS Complies
ENCS Complies
China -
AICS Complies
KECL Complies

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
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.
16. Other Information

Full text of R-phrases referred to under sections 2 and 3
R22 - Harmful if swallowed
R41 - Risk of serious damage to eyes
R50 - Very toxic to aquatic organisms

Full text of H-Statements referred to under sections 2 and 3
H302 - Harmful if swallowed
H400 - Very toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

Revision date 16-Jan-2015

Revision note Sections updated: 2 Classification according to regulation (EC) No 1272/2008 (CLP)
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
The information contained is based on our knowledge of the product at the date of publishing.
It applies to the PRODUCT AS SUCH. In case of formulation or mixture, make sure that a new danger will not appear.
Users are advised of possible additional hazards when the product is used in applications for which it was not intended.
This sheet shall only be used and duplicated for prevention and Safety purposes.
For rates and use recommendations, refer to the information displayed on the packaging.
It is the responsibility of the handlers of the product to pass on this safety data sheet to any subsequent persons who will come into contact with the product.

End of Safety Data Sheet