Beetup Compact SC

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

1.1 Identification of the product

Product code: HBR06

Product Description: Beetup Compact SC

Synonyms: Desmedipham/Phenmedipham 80/80 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
info.uk@uniphos.com

E-mail address

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) XI - Irritant
N - Dangerous for the environment

R-code(s) XI; R36/38, R43 - N; R50/53

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

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

Skin Corrosion/Irritation Category 2 - H315
Serious Eye Damage/Irritation Category 2 - H319
Skin sensitization Category 1 - H317
Acute aquatic toxicity Acute 1 - H400
Chronic aquatic toxicity Chronic 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) XI - Irritant
N - Dangerous for the environment

R-phrase(s) R43 - May cause sensitization by skin contact
R36/38 - Irritating to eyes and skin
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrase(s) S 2 - 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
S24 - Avoid contact with skin
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S29 - Do not empty into drains
S35 - This material and its container must be disposed of in a safe way
S37 - Wear suitable 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

Labelling according Regulation (EC) No 1272/2008 (CLP)
signal word  WARNING

hazard statements
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P273 - Avoid release to the environment
P280 - Wear protective gloves/ eye protection/ face protection
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P363 - Wash contaminated clothing before reuse
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>Desmedipham</td>
<td>237-198-5</td>
<td>13684-56-5</td>
<td>5 - 10</td>
<td>N; R50/R53</td>
<td>Aquatic Acute 1 (H400)</td>
<td>no data available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 1 (H410)</td>
<td></td>
</tr>
<tr>
<td>Phenmedipham</td>
<td>237-199-0</td>
<td>13684-63-4</td>
<td>5 - 10</td>
<td>N; R50/53</td>
<td>Aquatic Acute 1 (H400)</td>
<td>no data available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 1 (H410)</td>
<td></td>
</tr>
<tr>
<td>Wetting agent</td>
<td>Not Listed</td>
<td>-</td>
<td>1 - 5</td>
<td>Xn;R22 Xi;R41</td>
<td>Eye Dam. 1 (H318)</td>
<td>no data available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (H302)</td>
<td></td>
</tr>
<tr>
<td>Suspension agent</td>
<td>Not Listed</td>
<td>-</td>
<td>&lt; 1</td>
<td>Xi;R36/38</td>
<td>Skin Irrit. 2 (H315)</td>
<td>no data available</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2 (H319)</td>
<td></td>
</tr>
<tr>
<td>Stabilizer</td>
<td>Not Listed</td>
<td>-</td>
<td>&lt; 1</td>
<td>Xi;R36/37/38</td>
<td>STOT SE 3 (H335)</td>
<td>no data available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2 (H315)</td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2 (H319)</td>
<td></td>
</tr>
<tr>
<td>Preservative</td>
<td>Listed</td>
<td>-</td>
<td>&lt; 1</td>
<td>Xn; R22 Xi; R38-41 R43 N; R50</td>
<td>Acute Tox. 4 (H302)</td>
<td>no data available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2 (H315)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1 (H318)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1 (H317)</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1 (H400)</td>
<td></td>
</tr>
<tr>
<td>Emulsifier</td>
<td>Listed</td>
<td>-</td>
<td>5 - 10</td>
<td>Xn; R22 Xi; R38 Xi; R41</td>
<td>Skin Irrit. 2 (H315)</td>
<td>no data available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1 (H318)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (H302)</td>
<td></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 exposed or 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
Smother flames with sand, dry powders or carbon dioxide.

Unsuitable extinguishing media
Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Special Hazard
No information available

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
Avoid contact with the skin and the eyes

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
Avoid contact with skin and eyes
Ensure that eyewash stations and safety showers are close to the workstation location

Hygiene Measures
Do not eat, drink or smoke when using this product
Wash hands after handling

7.2 Conditions for safe storage, including any incompatibilities

Keep only in the original container/package in a cool well-ventilated place
Keep out of the reach of children
Protect from light

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
http://limitvalue.ifa.dguv.de/Webform_gw.aspx

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. (Tyvek).
Hand protection Protective gloves.
Respiratory protection Respiratory protection complying with EN 143

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>light grey opaque</td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>suspension concentrate</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>paint like</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No information available 6.4</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; 100 °C</td>
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</tr>
<tr>
<td>flammability (solid, gas)</td>
<td>Not highly flammable</td>
<td></td>
</tr>
<tr>
<td>Surface tension</td>
<td>33.7 mN/m</td>
<td></td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1</td>
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<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>
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</tr>
<tr>
<td>viscosity</td>
<td>3.23 mPas</td>
<td>40 °C, Dynamic viscosity</td>
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<tr>
<td>Oxidizing properties</td>
<td>Non oxidizing</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>According to the chemical structure no explosion reaction is expected.</td>
<td></td>
</tr>
</tbody>
</table>
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
Temperatures above 35°C

10.5 Incompatible Materials
Strong oxidizing agents
Strong acids

10.6 Hazardous Decomposition Products
Burning produces obnoxious and toxic fumes

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute toxicity

Local effects
- Inhalation: There is no data available for this product.
- Eye contact: There is no data available for this product.
- Skin contact: There is no data available for this product.
- Ingestion: There is no data available for this product.

LD50 Oral: > 2000 mg/kg
LD50 Dermal: > 4000 mg/kg

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Desmedipham (13684-56-5)</td>
<td>&gt; 5000 mg/kg (rat)</td>
<td>&gt;2000 mg/kg (rat)</td>
<td>&gt;7.4 mg/l</td>
</tr>
<tr>
<td>Phenmedipham (13684-63-4)</td>
<td>Acute oral LD50 for rats and mice &gt;8000, guinea pigs and dogs &gt;4000 mg/kg</td>
<td>Acute percutaneous LD50 for rats &gt;2000 mg/kg</td>
<td>LC50 (4 h) for rats &gt;7.0 mg/l</td>
</tr>
</tbody>
</table>

Chronic toxicity

- Skin Corrosion/Irritation: No information available.
- Corrosivity: No information available.
- Sensitization: May cause sensitization by skin contact.
- Repeated dose toxicity: No information available
- 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 = 0.59 mg/L
EC50/48h/daphnia = 38 mg/L
LC50/fish/96 h = 7.5 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>
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</thead>
<tbody>
<tr>
<td>Desmedipham</td>
<td>3.39</td>
</tr>
<tr>
<td>Phenmedipham</td>
<td>3.59</td>
</tr>
<tr>
<td>Preservative</td>
<td>1.3</td>
</tr>
</tbody>
</table>

12.4 Mobility in Soil

No information available.

12.5 Results of PBT and vPvB Assessment

No information available.

12.6 Other Adverse Effects

No information available.

13. Disposal Considerations

13.1 Waste Treatment Methods

Waste from Residues / Unused Products  Dispose of in accordance with local regulations.
Contaminated packaging  Empty containers should be taken for local recycling, recovery or waste disposal.
EWC waste disposal No  020108 - agrochemical waste containing dangerous substances.
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. (Phenmedipham, Desmedipham)

14.3 Hazard class 9

14.4 Packing group III

14.5 Environmental Hazard Yes

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. (Phenmedipham, Desmedipham)

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. (Phenmedipham, Desmedipham)

14.3 Hazard class 9

14.4 Packing group III

14.5 Environmental Hazard Yes

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 15566

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

International Inventories

<table>
<thead>
<tr>
<th>International Inventories</th>
<th>Complies</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td></td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td></td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td></td>
</tr>
<tr>
<td>PICCS</td>
<td></td>
</tr>
<tr>
<td>ENCS</td>
<td></td>
</tr>
<tr>
<td>China</td>
<td></td>
</tr>
<tr>
<td>AICS</td>
<td></td>
</tr>
<tr>
<td>KECL</td>
<td></td>
</tr>
</tbody>
</table>

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
R38 - Irritating to skin
R41 - Risk of serious damage to eyes
R43 - May cause sensitization by skin contact
R36/38 - Irritating to eyes and skin
R50/53 - Very toxic 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
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects

Revision date 11-Dec-2014
Revision note Not applicable
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