INTRUDER

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

1.1 Identification of the product

Product code ZAI16
Product Description: INTRUDER
Synonyms CHLORPROPHAM 400 G/L EC
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 6YN Cheshire
UK
Telephone +44 (0) 1925 819999
Telefax +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)  
Carc. cat. 3;R40  
Xn;R48/22  
Xn;R65  
R67  
Xi;R36/38 R43  
N;R51/53

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aspiration toxicity  
Category 1 - H304

Skin Corrosion/Irritation  
Category 2 - H315

Serious Eye Damage/Irritation  
Category 2 - H319

Skin sensitization  
Category 1 - H317

Carcinogenicity  
Category 2 - H351

STOT - Single Exposure  
Category 3 - H336

STOT - Repeated Exposure  
Category 2 - H373

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)  
Xn - Harmful  
N - Dangerous for the environment

R -phrase(s)  
R36/38 - Irritating to eyes and skin  
R40 - Limited evidence of a carcinogenic effect  
R43 - May cause sensitization by skin contact  
R48/22 - Also harmful: danger of serious damage to health by prolonged exposure if swallowed  
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R65 - Harmful: may cause lung damage if swallowed  
R67 - Vapours may cause drowsiness and dizziness

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  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection
S51 - Use only in well ventilated areas
S57 - Use appropriate container to avoid environmental contamination
S60 - This material and its container must be disposed of as hazardous waste
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets
S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

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

signal word DANGER

hazard statements
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H366 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)
P201 - Obtain special instructions before use
P260 - Do not breathe spray
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P353 - IF exposed or if you feel unwell:
P301 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P362 - Take off contaminated clothing and wash before reuse

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>
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</thead>
<tbody>
<tr>
<td>Chlorpropham</td>
<td>202-925-7</td>
<td>101-21-3</td>
<td>40 - 50</td>
<td>Carc. Cat. 3; R40 Xn; R48/22 N; R51/53</td>
<td>STOT RE 2 (H373) Carc. 2 (H351) Aquatic Chronic 2 (H411)</td>
<td>no data available</td>
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<tr>
<td>Hydrocarbons, C10, aromatics, &lt;1% naphthalene</td>
<td>265-198-5</td>
<td>64742-94-5</td>
<td>50 - 60</td>
<td>Xn; R65 R66 R67 N; R51/53</td>
<td>STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) (EUH066)</td>
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<tr>
<td>Blend of anionic and nonionic surfactants</td>
<td>-</td>
<td>-</td>
<td>1 - 5</td>
<td>R10 Xi; R37/38 Xi; R41 R67 R52/53</td>
<td>STOT SE 3 (H335) STOT SE 3 (H336) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)</td>
<td>no data available</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
Do NOT induce vomiting
Never give anything by mouth to an unconscious person
Call a physician or poison control center immediately

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
Carbon dioxide (CO2)
Foam
Dry powder

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
Burning produces obnoxious and 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
Avoid contact with the skin and the eyes
Wear protective gloves/clothing and eye/face protection.

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
Ensure that eyewash stations and safety showers are close to the workstation location
Avoid contact with skin, eyes and clothing
Wear protective gloves/clothing and eye/face protection.

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 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>
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</thead>
<tbody>
<tr>
<td>appearance</td>
<td>light brown</td>
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</tr>
<tr>
<td>Physical state</td>
<td>liquid</td>
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<tr>
<td></td>
<td>Emulsifiable concentrate</td>
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<tr>
<td>Odor</td>
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<tr>
<td>pH</td>
<td>3.9</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
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<tr>
<td>Boiling Point/Range</td>
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<td></td>
</tr>
<tr>
<td>flash point</td>
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<tr>
<td>flammability (solid, gas)</td>
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</tr>
<tr>
<td>Surface tension</td>
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<tr>
<td>Relative Density</td>
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<tr>
<td>Water solubility</td>
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<tr>
<td>Solubility in Other Solvents</td>
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<tr>
<td>Partition coefficient: n-octanol/water</td>
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<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
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<td></td>
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<tr>
<td>decomposition temperature</td>
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<tr>
<td>viscosity</td>
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<tr>
<td>Oxidizing properties</td>
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<tr>
<td>Explosive properties</td>
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</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
Acids
Oxidizing agents.

10.6 Hazardous Decomposition Products
Thermal decomposition can lead to release of irritating gases and vapours

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute toxicity

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

LD50 Oral: > 2000 mg/kg (rat)
LD50 Dermal: > 4000 mg/kg (rat)

Chronic toxicity

- Skin Corrosion/Irritation: No information available.
- sensitization: May cause sensitization by skin contact.
- 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 = 0.86 mg/L  
EC50/48h/daphnia = 3.54 mg/L  
LC50/fish/96 h = 3.85 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>Hydrocarbons, C10, aromatics, &lt;1% naphthalene</td>
<td>2.9 - 6.1</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

<table>
<thead>
<tr>
<th>ADR/RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN-No</td>
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<tr>
<td>14.2 Proper shipping name</td>
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<tr>
<td>14.3 Hazard class</td>
</tr>
<tr>
<td>14.4 Packing group</td>
</tr>
<tr>
<td>14.5 Environmental Hazard</td>
</tr>
<tr>
<td>14.6 Special Provisions</td>
</tr>
<tr>
<td>Tunnel restriction code</td>
</tr>
</tbody>
</table>

IMDG/IMO

| 14.1 UN-No | UN3082 |
| 14.2 Proper shipping name | Environmentally hazardous substance, liquid, n.o.s Chlorpropham |
| 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 Chlorpropham |
| 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 15076

- 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
R10 - Flammable
R40 - Limited evidence of a carcinogenic effect
R41 - Risk of serious damage to eyes
R43 - May cause sensitization by skin contact
R65 - Harmful: may cause lung damage if swallowed
R66 - Repeated exposure may cause skin dryness or cracking
R67 - Vapours may cause drowsiness and dizziness
R36/38 - Irritating to eyes and skin
R37/38 - Irritating to respiratory system and skin
R48/22 - Also harmful: danger of serious damage to health by prolonged exposure if swallowed
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
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
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects
EUH066 - Repeated exposure may cause skin dryness or cracking
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

Revision date 12-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