1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: FORMULA 10 PLUS
Supplier: Guyson International Ltd
Snaygill Industrial Estate, Skipton, UK, BD23 2QR
Tel: +44 (0)1756 799911
Fax: +44 (0)1756 790213
E-mail info@guyson.co.uk

Emergency telephone number: +44 (0)1756 799911 (during normal working hours)

2. HAZARDS IDENTIFICATION


Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Label elements:
Labelling according to Regulation (EC) No 1272/2008. The substance is classified and labelled according to the CLP regulation.

Hazard pictogram:
Signal word: Danger.

Hazard-determining components of labelling:
Poly(oxy-1,2-ethaandiol)-phenyl-hydroxy phosphate.

Hazard statements:
H318. Causes serious eye damage.

Precautionary statements:
P280. Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310. Immediately call a medical professional.

Other hazards: The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.

Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: Mixtures.

Description: Mixture of substances listed below with non-hazardous additions.

<table>
<thead>
<tr>
<th>Item</th>
<th>Content (%)</th>
<th>CAS No.</th>
<th>EINECS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium carbonate</td>
<td>5 - 10</td>
<td>584-08-7</td>
<td>209-529-3</td>
</tr>
<tr>
<td>xi R36/37/38</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signal word: Irritant.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethaandiol)-phenyl- hydroxy phosphate</td>
<td>2.5 - 5</td>
<td>39464-70-5</td>
<td>N/A</td>
</tr>
<tr>
<td>xi R41</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signal word: Danger</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ingredients according to Detergents Regulation 648/2004/EC. Phosphates, Nonionic surfactants.</td>
<td>&lt;5</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**General information**
Immediately remove any clothing soiled by the product.

**Eye contact**
Rinse opened eye under water for several minutes. If symptoms persist, consult a doctor.

**Skin contact**
Immediately wash with soap and water for several minutes and rinse thoroughly. If symptoms persist, consult a doctor.

**Inhalation**
Supply fresh air. Consult with a doctor in case of complaints.

**Ingestion**
If swallowed, if symptoms persist, consult a doctor.

**Most important symptoms and effects, both acute and delayed.**
No further relevant information available.

**Indication of any immediate medical attention and special treatment needed.**
No further relevant information available.

5. FIRE FIGHTING MEASURES

**Extinguishing media**
Any available such as CO₂, extinguishing powder and water fog, etc. Fight larger fires with water spray or alcohol resistant foam.

**Specific hazards**
No further information available.

**Advice for firefighters**
Use appropriate protective equipment. No special measures required.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions & protective equipment**
Not required.

**Environmental precautions**
No special measures required.

**Spill clean-up methods**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
7. HANDLING AND STORAGE

Precautions for safe handling
Ensure good ventilation / exhaust at workplace.
Prevent formation of aerosols.

Information about fire and explosion
No special measures required.

Storage requirements
No special requirements.

Storage conditions
Keep receptacles tightly sealed.

Specific end uses
No further relevant information available.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Ingredients with limit values that require monitoring in the workplace.

a) 7664-38-2 phosphoric acid (0.1-1%)

WEL (Great Britain)  
Short-term value: 2 mg/m³.  
Long-term value: 1 mg/m³.

IOELV (European Union)  
Short-term value: 2 mg/m³.  
Long-term value: 1 mg/m³.

b) 141-43-5 2-aminoethanol (< - 0.1%)

WEL (Great Britain)  
Short-term value: 7.6 mg/m³, 3 ppm.  
Long-term value: 2.5 mg/m³, 1 ppm.  
Skin.

IOELV (European Union)  
Short-term value: 7.6 mg/m³, 3 ppm.  
Long-term value: 2.5 mg/m³, 1 ppm  
Skin.

DNELS

a) 584-08-7 potassium carbonate

Inhalative: DNEL Long term local mg/m³
10 mg/m³ (consumer).
10 mg/m³ (worker).

Inhalative: DNEL Long term-systemic mg/m³
10 mg/m³ (consumer).
10 mg/m³ (worker).

The lists valid during the making were used as basis.
General protective and hygienic measures
Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection
Not required.

Protection of hands
Rubber gloves.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Rubber gloves
Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye protection
Tightly sealed goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Dark yellow liquid.

Odour
None.

Boiling point (°C)
100

Flash point (°C)
Not applicable.

Auto-ignition temperature (°C)
Not determined.

pH-value
11 @ 20°C.

Self-igniting
Product is not self-igniting.

Danger of explosion
Product does not present an explosion hazard.

Vapour pressure @ 20°C
23hPa
Density @ 20°C  1.115 g/cm³.
Vapour density  Not determined.
Evaporation rate  Not determined.
Solubility & miscibility with water  Fully miscible.
Partition coefficient (n-octanol / water)  Not determined.
Viscosity – dynamic  Not determined.
Viscosity – kinematic  Not determined.
Solvent content  Organic solvents – 0.1%.
Solids content  2.1%.

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to avoid  No decomposition if used according to specifications.
Possibility of hazardous reactions  No dangerous reaction known under normal conditions of use.
Conditions to avoid  No further relevant information available.
Incompatible materials  No further relevant information available.
Hazardous decomposition products  No dangerous composition products known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD/LC50 values relevant for classification:

a) 584-08-7 potassium carbonate

<table>
<thead>
<tr>
<th>Type</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
</table>
| Oral       | LD50      | >2000 mg/kg (Rat).
| Dermal     | LD50      | 2000 mg/kg (Rabbit).
|            | EC 50 / 48 h | 430 mg/ltr (Daphnia magna (water flea)).
|            | LC50 / 96 h | 68 mg/ltr (Oncorhynchus mykiss. (Rainbow trout)).

b) 39464-70-5 Poly(oxy-1,2-ethaandiol)-phenyl-hydroxy phosphate

Oral
   LD50     >2000 mg/kg (Rat).
   LC50 / 96 h  >100 mg/ltr (Oncorhynchus mykiss.
   (Rainbow trout)).

Primary irritant effect
On the skin  Irritant to skin and mucous membranes.
On the eye    Irritating effect.
Sensitisation  No sensitising effects known.
Addition information  The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant.

12. ECOLOGICAL INFORMATION

Aquatic toxicity
   39464-70-5 Poly(oxy-1,2-ethaandiol)-phenyl-hydroxy phosphate OECD test 302 B 85 (biodegradation in % after 28 days).

Persistence and degradability  No further relevant information available.
Other information  The product is biodegradable.
Bio-accumulative potential  No further relevant information available.
Mobility in soil  No further relevant information available.
Results of PBT and vPvB assessment  PBT: Not applicable.  vPvB: Not applicable.
General notes  Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

In accordance with the requirements of the RVO in the Act on Detergents and Cleansing Agents, tensides are biodegradable up to at least 90 %.
13. DISPOSAL CONSIDERATIONS

Disposal methods  Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging  Disposal must be made in accordance with official regulations.

14. TRANSPORT INFORMATION

General  The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID). Tariff Code 3402 9010.

15. REGULARITY INFORMATION

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

National regulations  Water hazard class 2 (Self-assessment): hazardous for water.

Chemical safety assessment  A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

H315  Causes skin irritation.

H318  Causes serious eye damage.

H319  Causes serious eye irritation.

H335  May cause respiratory irritation.

R36/37/38  Irritating to eyes, respiratory system and skin.

R41  Risk of serious damage to eyes.