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

**Product identifier**

**Product name:** DA-GEN ACTIVATOR

**Other means of identification:** Magnesium Chloride Hexahydrate Flakes

**Details of supplier of the safety data sheet**

Dryden Aqua Limited

Butlerfield Industrial Estate

Bonnyrigg, Edinburgh

EH19 3JQ

United Kingdom

(0044) 1875 822222

[andy@drydenaqua.com](mailto:andy@drydenaqua.com)

<http://www.drydenaqua.com>

1. **Composition/information on ingredients**

**Range**

Magnesium Chloride (MgCl2) 46.5 – 47.5%

Calcium Chloride (CaCl2) 2.0 – 2.2%

Sodium Chloride (NaCl) 0.5 – 0.8%

Potassium Chloride (KCl) 0.2 – 0.5%

Water (H2O) Balance to 100%

CAS No. 7791-18-6

Calcium chloride is quite similar in its properties to magnesium chloride and at this concentration level may be considered as such for all articles in this MSDS.

1. **Possible Hazards**

**Critical hazards to man and environment –** Inapplicable, not classified as dangerous material

1. **First aid Measures**

**Description of first aid measures**

**On Skin contact:** Wash with water

**On contact with eyes:** Flush open eyes with plenty of water

**On ingestion:** Induce vomiting and consult physician

1. **Fire fighting measures.**

**Suitable extinguishing media:** Inapplicable because not combustible

**Special protective equipment:** Not required

1. **Accidental release measure**

**Personal precautions:** No special measures required

**Environmental precautions:** Avoid contamination of water sources

**Methods of cleaning up:**  Pick up mechanically and dispose according to point 13. Minor residue to be washed away with excessive water flow. Disposal of waste water according to regulations. If spilling occurs on public highways, wash toughly with water and absorbent should be applied (i.e. sand) to prevent skidding on a slippery surface.

1. **Handling and storage**

**Handling:** Prevent contact with water or humid atmosphere

**Protection against fire and Explosion:** No special demands because not combustible

**Storage:** Keep tray in storage, avoid moisture

1. **Personal protection**

**Personal protective equipment**

**Respiratory protection:** Dust mask under strong dust development

**Hand protection:**  Rubber gloves recommended if exposed for a long time

**Eye protection:** Safety goggles only under strong dust development

**Body protection:** Not required

1. **Physical and chemical properties**

**Form:** Flakes

**Colour:** White

**Odour:** none

**Change in physical state:** Hygroscopic

**Flash point:** not applicable because not combustible

**Explosion hazard:** not applicable

**Density (20°C):** 1.6 gr/cm3

**Bulk density:** 800 – 900kg/m3

**Solubility in water (20°C):** 167g/100 ml water

**pH value:**  8.2/ at 10% in aqueous solution

1. **Stability and reactivity**

**Hazardous decomposition products:**  Above 160°C decomposes giving HCL gases

**Hazardous reactions:** none

1. **Toxicological information**

**Acute toxicity:** LD50/oral/rat – 8100mg/kg

**Primary irritation (skin/eyes):** no data available

**Sensitizing:** no sensitizing on human beings

**Experiences in humans:** none

**Additional information:** If handled according to regulations no danger to human beings.

1. **Ecological information**

**Behaviour and environmental**

If properly introduced in small concentrations into adapted biological sewage treatmentplants, decomposition of the activated sludge is not affected.

**Ecotoxic effects**

Not available

Not mentioned in the EC regulations of 4/5/76 concerning discharge of dangerous materials into the water, neither List I or List II. MgCl2 is a component of sea water

1. **Disposal consideration**

**Product**

Transfer to suitable waste deposit, thereby observing local laws and regulations (special waste or underground deposits).

**Contaminated packaging**

Contaminated bags should be emptied thoroughly; after proper cleaning they can be recycled.

1. **Transport information**

Is not a hazardous material according to the transport regulations.

1. **Regulatory information**

**Labelling according to EEC Directives**

No specific marking required according to EC-Regulations 67/548

**National legislation/regulations**

Directive in case of accidents not mentioned

Regulations on dangerous materials not mentioned

Technical directives concerning air not mentioned

In the catalogue of water jeopardizing products of June 12, 1987 in class WGK (0)

1. **Other information**

The information contained herein is based on our present knowledge and is not meant to guarantee product properties.

Recipients of our product must take responsibility for observing existing laws and regulations.

**MANUFACTURER DISCLAIMER:**

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