

## Mr Muscle Kitchen & Bathroom Drain Gel

Revision Date: 2011-03-07

### 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** Mr Muscle Kitchen & Bathroom Drain Gel

**Recommended use:** Professional kitchen hygiene product. Professional cleaning/maintenance product for building care.

**Manufacturer, importer, supplier:**  
Diversey Ltd, Weston Favell Centre Northampton NN3 8PD Tel 01604 405311 Fax 01604 406809

**Information department:**  
Regulatory Email: MSDSinfoUK@diversey.com

**Emergency telephone number:**  
For medical or environmental emergency only, call 0800 052 0185

### 2. Hazards identification

**Classification:** The product has been classified and labelled in accordance with current EC guidelines on dangerous substances and preparations and corresponding national legislation



C - Corrosive.  
N - Dangerous for the environment.

Contains: sodium hydroxide, sodium hypochlorite

**Risk phrases:**

R31 - Contact with acids liberates toxic gas.  
R34 - Causes burns.  
R50 - Very toxic to aquatic organisms.

**Safety phrases:**

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28a - After contact with skin, wash immediately with plenty of water.  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S61b - Avoid release to the environment. Refer to safety data sheet.  
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

### 3. Composition/information on ingredients

**Description:** Mixture of non-dangerous ingredients and substances listed below.

Ingredient(s)	EC number	CAS number	Classification	Weight %
sodium hypochlorite	231-668-3	7681-52-9	C,N; R31-34-50	5-15
sodium hydroxide	215-185-5	1310-73-2	C; R35	< 5
amines, C10-16 alkyldimethyl-,N-oxides	274-687-2	70592-80-2	Xi,N; R38-41-50	< 5

\* Polymer.

For the full text of the R phrases mentioned in this Section, see Section 16.  
Occupational Exposure Limit(s), if available, are listed in Section 8.

### 4. First aid measures

**General Information:**

If unconscious place in recovery position and seek medical advice.

**Inhalation:**

Remove from source of exposure. Get medical attention immediately.

**Skin contact:**

Rinse with plenty of water. Take off all contaminated clothing immediately. Get medical attention.

**Eye contact:**

Wash off immediately with plenty of water. Get medical attention immediately.

**Ingestion:**

Remove material from mouth. Immediately drink 1-2 glasses of water or milk. Get medical attention immediately.

## 5. Fire-fighting measures

**Suitable extinguishing media:** Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

**Special protective equipment for firefighters:** As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## 6. Accidental release measures

**Personal precautions:** In case of an incident in a confined area wear suitable respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.

**Environmental precautions:** Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

**Methods for cleaning up:** Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Dispose of the collected material according to national or local regulations.

Note: See Section 8 for personal protective equipment and Section 13 for waste disposal

## 7. Handling and storage

### Handling

**Advice on safe handling:** Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless advised by Diversey.

**Prevention of fire and explosion:** No special precautions required.

### Storage

**Requirements for storage rooms / facilities:** In accordance with local and national regulations.

**Combined storage in storage rooms / facilities:** In accordance with local and national regulations. Store away from acids.

**Storage conditions:** Store in original container. Keep container tightly closed.

## 8. Exposure controls/personal protection

### Exposure limits

Ingredient(s)	CAS number	UK - Long term value(s)	UK - Short term value(s)	EU - Long term value(s)	EU - Short term value(s)	Weight %
sodium hydroxide	1310-73-2		2 mg/m <sup>3</sup>			< 5

**General protective and hygienic measures:** Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of workday. Avoid contact with skin and eyes.

### Personal Protective Equipment

**Respiratory protection:** No special requirements under normal use conditions.

**Hand protection:** Chemical-resistant protective gloves made of butyl or nitrile rubber (EN 374, category III). In consultation with the supplier of protective gloves a different type of similar quality may be chosen.

**Eye Protection:** Safety glasses or goggles (EN 166).

**Skin and body protection:** If contact is possible wear chemical-resistant apron or full protective suit and boots.

## 9. Physical and chemical properties

### General Information

**Physical State:** Liquid

**Colour:** Clear Pale Yellow

**Odour:** Chlorine

### Important Health Safety and Environmental Information

**pH:** > 12 (neat)

**Boiling point/range (°C):** Not determined

**Flash point (°C):** Not applicable

**Flammability:** Not flammable

**Explosive properties:** Not explosive

**Oxidising properties:** Not oxidising

**Specific gravity:** 1.12 g/cm<sup>3</sup> (20°C)

**Solubility in / Miscibility with**      **Water:** Fully miscible

## 10. Stability and reactivity

**Conditions to avoid:** No decomposition if stored and applied as directed.  
**Materials to avoid:** Reacts with acids releasing toxic chlorine gas.  
**Hazardous decomposition products:** Chlorine.

## 11. Toxicological information

### Acute effects and sensitisation

**Acute toxicity:** This product has not been tested on animals but based on the toxicological classification the LD50 (oral) is estimated to be 200-2000 mg/kg. This value is of no practical significance due to the corrosive nature of the product.

**Skin contact:** Causes burns.

**Eye contact:** Causes severe or permanent damage.

**Inhalation:** May cause bronchospasm in chlorine sensitive individuals. Severe irritant, may cause respiratory tract irritation.

**Ingestion:** Causes burns. Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

**Sensitization:** No known effects.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** No known effects.

**Repeated dose toxicity:** No known effects.

## 12. Ecological information

**Classification:** Very toxic to aquatic organisms. The classification of the product is due to the component(s) listed in section 3 with an environmental classification (R50 - R53).

**Aquatic toxicity:** This product has not been tested on aquatic organisms but based on the environmental classification the toxicity for aquatic organisms (as defined in 67/548/EEC, Annex V) is estimated to be  $\leq 1$  mg/l.

**General Information:** The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. Should not reach sewage water or drainage ditch undiluted.

## 13. Disposal considerations

### Product

**Waste from residues / unused products:** Dispose of in compliance with all Federal, state, provincial, and local laws and regulations.

**European Waste Catalogue:** 20 01 15\* - alkalines.

### Empty packaging

**Recommendation:** Dispose of observing national or local regulations.

**Suitable cleaning agents:** Water, if necessary with cleaning agent.

## 14. Transport information



### ADR/RID

**Class:** 8  
**UN Number:** 1719  
**Proper shipping name:** Caustic alkali liquid, n.o.s ( sodium hydroxide , hypochlorite )  
**Packing group:** III  
**Label(s):** 8  
**Classification code:** C5  
**Tunnel restriction code:** E  
**Hazard identification number:** 80

**IMO/IMDG**

**Class:** 8  
**UN Number:** 1719  
**Proper shipping name:** Caustic alkali liquid, n.o.s. ( sodium hydroxide , hypochlorite )  
**Packing group:** III  
**Label(s):** 8  
**Marine pollutant:** Yes  
**EmS:** F-A, S-B

**ICAO/IATA**

**Class:** 8  
**UN Number:** 1719  
**Proper shipping name:** Caustic alkali liquid, n.o.s. ( sodium hydroxide , hypochlorite )  
**Packing group:** III  
**Label(s):** 8

**Additional Information:** Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities

**15. Regulatory information****Ingredients according to EC Detergents Regulation 648/2004**

chlorine-based bleaching agents 5 - 15%  
non-ionic surfactants, soap < 5%

**16. Other information**

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

*(\*) This brand is used under authority from SC & Son Inc. Racine, Wisconsin, USA*

**Text of R phrases mentioned in Section 3:**

- R34 - Causes burns.
- R50 - Very toxic to aquatic organisms.
- R31 - Contact with acids liberates toxic gas.
- R35 - Causes severe burns.
- R41 - Risk of serious damage to eyes.
- R38 - Irritating to skin.

**MSDS code:** MS1000212

**Internal code:** 01

**End of Safety Data Sheet**