



MAGNUM PLUS

Automatic Dishwash Detergent with Chlorine

- Effectively cuts through grease & dried on food.
- Prevents soil & limescale being re-deposited.
- Suitable for use in soft to medium hard water.
- Supplied in a natural see through container to easily check the volume.

Product Description:

Magnum is a low foaming dishwashing detergent which is suitable for use in both soft and medium hard water areas. Magnum is an extremely active product and will efficiently remove dried on food and grease from crockery, cutlery and utensils. Regular use will prevent limescale and soil from being re-deposited. Use in all single and multi tank automatic dishwashing machines.

Directions and Dilutions:

Dispense into automatic dishwashing machine through an electronic dispenser at a ratio of 1-3ml per litre, depending on soiling and water hardness, in accordance with the machine manufacturer's instructions.

NOT to be used in manual or domestic machines.

Useful Information:

Product Characteristics: Clear pale-yellow colour liquid with a characteristic odour

Storage: Store in original sealed container and protect from extremes of temperature.

Availability: Available in 2 x 5 litre boxes

Composition: Contains a blend of potassium hydroxide, bleach, sequestering agents & dye.

For any further information on this product or any other Sky Chemicals product, please contact us and we will be more than willing to help.


SECTION 1: Identification of the substance/mixture and of the company / undertaking

| | | | |
|---|--------------------------------|---|--|
| 1.1 Product identifier | | 1.3 Details of the supplier of the safety data sheet | |
| Product name | Magnum Plus | Company name | Sky Chemicals (UK) Ltd |
| Synonyms | | Address | Unit 12 Sheffield Design Studios 40 Ball street, Sheffield S3 8DB |
| Other means of identification | MAG | Telephone / Fax | 0114 278 0222 / 0114 272 7750 |
| 1.2 Relevant identified uses, and uses advised against | | Website | www.skychemicals.co.uk |
| Relevant identified uses | Chlorinated dishwash detergent | Email | info@skychemicals.co.uk |
| Uses advised against | Use as directed | 1.4 Emergency telephone number | |
| | | Emergency number | 0114 278 0222 (M-F 09:00-17:00) |

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

| | |
|--|--|
| Classification according to CLP | H314 Causes severe skin burns and eye damage. Skin Corrosion / Irritation Category 1A |
| | H314 Causes severe skin burns and eye damage. Eye Damage / Irritation Category 1 |
| | H411 Toxic to aquatic life with long lasting effects. Hazardous to the Aquatic Environment - Long-term Hazard Category 2 |

2.2 Label elements

| | |
|------------------------------------|---|
| Hazard pictograms |  |
| Signal word | Danger |
| Hazard statements | H314 - Causes severe skin burns and eye damage. H411 - Toxic to aquatic life with long lasting effects. |
| Precautionary statement(s): | |
| Prevention | P260 Do not breathe vapour or dust. P264 Wash hands and other contacted skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/eye protection/face protection. |
| Response | P301/330/331 If swallowed: Rinse mouth. Do not induce vomiting. P303/361/353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P304/340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305/351/338 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 POISON CENTER or doctor/physician. P363 Wash contaminated clothing before reuse. P391 Collect spillage. |
| Storage | P405 Store locked up. |
| Disposal | P501 Dispose of contents/container to approved disposal site, in accordance with local regulations. |

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients**3.1 Substances**

See Section 3.2

3.2 Mixtures

| Name | CAS No. | EC No. | Classification | Percent |
|------------------------------|-----------|-----------|--|----------|
| Potassium hydroxide | 1310-58-3 | 215-181-3 | H290 - Corrosive to Metals Category 1 H302 - Acute Toxicity - Oral Category 4 H314 - Skin Corrosion / Irritation Category 1A H318 - Eye Damage / Irritation Category 1 | 10 - 20% |
| Sodium hypochlorite | 7681-52-9 | 231-668-3 | H290 - Corrosive to Metals Category 1 H314 - Skin Corrosion / Irritation Category 1B H318 - Eye Damage / Irritation Category 1 H335 - Specific Target Organ Toxicity (Single Exposure) Category 3 H410 - Aquatic Chronic 1 / Aquatic Acute 1 | 1 - 5% |
| Tetrapotassium pyrophosphate | 7320-34-5 | 230-785-7 | H319 - Eye Damage / Irritation Category 2 | 1 - 5% |

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Tel: 0114 278 0222
Fax: 0114 272 7750www.skychemicals.co.uk
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SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|---------------------|--|
| Eye contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Skin contact | IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. |
| Inhalation | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| Ingestion | If swallowed: Rinse mouth. Do not induce vomiting. |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|---------------------|--|
| Eye contact | Causes severe skin burns and eye damage. |
| Skin contact | Causes severe skin burns and eye damage. |

Inhalation

Ingestion

4.3 Indication of any immediate medical attention and special treatment needed

Ingestion

Skin and Eye None expected, see Section 4.1 for further information.

Inhalation

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable media Carbon dioxide, Dry chemical, Foam.

Unsuitable media

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products Thermal decomposition can release chlorine gas, and chlorine oxides.

5.3 Advice for firefighters

Fire Fighting In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

6.2 Environmental precautions

Keep away from drains, surface and ground water, and soil.

6.3 Methods and material for containment and cleaning up

Avoid excessive inhalation of vapours / dust. If spillage occurs in a confined space additional ventilation may be required.

In volumes up to 25L's contain spillage using sand or inert powder while wearing full PPE (including goggles and gloves)

In volumes up to 5L's contain spillage using paper towels while wearing full PPE (including goggles and gloves)

6.4 Reference to other sections

Also refer to sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Safe handling Use personal protective equipment as required. See protective measures under Section 8.

Fire and explosion

Other information

7.2 Conditions for safe storage, including any incompatibilities

Suitable storage Store in container as supplied, tightly closed. Keep cool and away from direct sunlight.

Storage incompatibility

7.3 Specific end uses

Recommendations Industrial machine dishwash fluid with bleach: Use in accordance with good manufacturing and industrial hygiene practices.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits: Not Applicable

8.2 Exposure controls

8.2.1 Engineering controls Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls.

8.2.2 Personal protection equipment:

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| | |
|--------------------------------|---|
| Eye and face protection | Wear protective gloves/eye protection/face protection |
| Skin protection | Wear protective gloves/eye protection/face protection |
| Hands protection | Wear protective gloves/eye protection/face protection |
| Respiratory protection | In conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material. Also refer to Sections 2 and 7. |

8.2.3 Environmental exposure controls:

Dispose of contents/container to approved disposal site, in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | | |
|--------------------|--------------------|--------------------------|--------|
| Appearance: | Pale yellow liquid | Physical state: | Liquid |
| Odour: | Very slight bleach | Flash point: | >61°C |
| pH: | 12 | pH (as solution): | n/a |

9.2 Other information

None available

SECTION 10: Stability and Reactivity

| | |
|--|--|
| 10.1 Reactivity | Presents no significant reactivity hazard, by itself or in contact with water. |
| 10.2 Chemical stability | Good stability under normal storage conditions. |
| 10.3 Possibility of hazardous reactions | Not expected under normal conditions of use. |
| 10.4 Conditions to avoid | Avoid extreme heat. |
| 10.5 Incompatible materials | Never mix with acids or other chemicals. |
| 10.6 Hazardous decomposition products | Not expected. |

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | |
|--|--|
| Acute toxicity | Based on available data the classification criteria are not met. |
| Acute Toxicity Oral | 3187 |
| Acute Toxicity Dermal | Not applicable |
| Acute Toxicity Inhalation | Not available |
| Skin corrosion/irritation | Skin Corrosion / Irritation Category 1A |
| Serious eye damage/irritation | Eye Damage / Irritation Category 1 |
| Respiratory or skin sensitisation | Based on available data the classification criteria are not met. |
| Germ Cell mutagenicity | Based on available data the classification criteria are not met. |
| Carcinogenicity | Based on available data the classification criteria are not met. |
| Reproductive toxicity | Based on available data the classification criteria are not met. |
| STOT-single exposure; | Based on available data the classification criteria are not met. |
| STOT-repeated exposure | Based on available data the classification criteria are not met. |
| Aspiration hazard | Based on available data the classification criteria are not met. |

Information about hazardous ingredients in the mixture:

| Ingredient | CAS | EC | LD50/ATE Oral | LD50/ATE Dermal | LC50/ATE EC Inhalation | LC50 Route |
|---------------------|-----------|-----------|------------------|--------------------|---------------------------|---------------|
| Potassium hydroxide | 1310-58-3 | 215-181-3 | 500 | Not available | Not available | Not available |

SECTION 12: Ecological information

| | |
|---|--|
| 12.1 Toxicity | Toxic to aquatic life with long lasting effects. |
| 12.2 Persistence and degradability | Not available |
| 12.3 Bioaccumulative potential | Not available |
| 12.4 Mobility in soil | Not available |
| 12.5 PBT and vPvB assessment | This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. |
| 12.6 Endocrine disrupting properties | Not available |

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12.7 Other adverse effects Not available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product disposal Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment.

Packaging disposal Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport Information

14.1 UN number or ID number UN1760

14.2 UN proper shipping name CORROSIVE LIQUID, N.O.S. (Potassium Hydroxide, Sodium Hypochlorite)

14.3 Transport hazard class(es) 8

14.4 Packing group II

14.5 Environmental hazards This is classified as an environmentally hazardous substance under the UN Model Regulations.

14.6 Special precautions for user None additional

14.7 Maritime transport in bulk according to IMO instruments Not applicable

SECTION 15: Regulatory information

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

Water Hazard Class (WGK): 3

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other information

Date of issue:

23rd April 2024

Version number:

Concentration % Limits: EH C2=59.68% EH C3=5.97% SCI 1A=31.87% SCI 1B=25.15% SCI 1C=25.15% SCI 2=5.03% EDI 1=15.09% EDI 2=4.93%

Total Fractional Values: EH C2=1.68 EH C3=16.76 SCI 1A=3.14 SCI 1B=3.98 SCI 1C=3.98 SCI 2=19.88 EDI 1=6.63 EDI 2=20.29

Abbreviations

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

P234 Keep only in original container.

P260 Do not breathe vapour or dust.

P264 Wash hands and other contacted skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

P301/312 IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.

P301/330/331 If swallowed: Rinse mouth. Do not induce vomiting.

P303/361/353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304/340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305/351/338 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 POISON CENTER or doctor/physician.

P330 Rinse mouth.

P337/313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P391 Collect spillage.

P403/233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

P501 Dispose of contents/container to approved disposal site, in accordance with local regulations.