

### MATERIAL SAFETY DATA SHEET (MSDS)

#### SECTION 1: IDENTIFICATION

- **Product Name:** Black Spot Remover
- **UFI:** 3QRF-XAEX-840K-YN6N
- **Recommended Use:** Cleaning agent
- **Manufacturer/Supplier:**  
**FlowChemUK Limited**  
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- **Emergency Contact Number:** 0844 892 0111

#### SECTION 2: HAZARDS IDENTIFICATION

##### Classification:

- Skin Corrosion/Irritation – Category 1B
- Serious Eye Damage – Category 1
- Acute Toxicity (Oral) – Category 4
- Hazardous to the aquatic environment – Category 2

##### Label Elements:

**Signal Word:** DANGER

##### Hazard Pictograms:



##### Hazard Statements:

- H314: Causes severe skin burns and eye damage
- H302: Harmful if swallowed
- H411: Toxic to aquatic life with long-lasting effects

##### Precautionary Statements:

- P260: Do not breathe mist/vapours/spray
- P264: Wash thoroughly after handling
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy. Continue rinsing

#### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percentage (%)	Function
Water	7732-18-5	50-70%	Solvent
Sodium Hypochlorite 15%	7681-52-9	30-50%	Disinfectant/Oxidiser
SLES (Sodium Laurel ether Sulfate)	9004-82-4	1-5%	Surfactant

#### SECTION 4: FIRST AID MEASURES

- **Inhalation:** Remove to fresh air. Get medical attention if symptoms persist.
  - **Skin Contact:** Remove contaminated clothing. Rinse skin with water/shower. Seek medical advice for irritation or burns.
  - **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present. Seek immediate medical attention.
  - **Ingestion:** Rinse mouth. DO NOT induce vomiting. Seek immediate medical assistance.
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#### SECTION 5: FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Use water spray, foam, dry chemical or CO<sub>2</sub>
  - **Unsuitable Media:** None known
  - **Hazards:** Chlorine gas may be released at high temperatures
  - **Protective Equipment:** Self-contained breathing apparatus and full protective clothing
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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Wear appropriate PPE. Ventilate area. Avoid inhalation or contact with eyes/skin.
  - **Environmental Precautions:** Prevent product from entering drains, watercourses, or soil.
  - **Clean-up Methods:** Absorb spill with inert material (sand, earth). Dispose according to local regulations.
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#### SECTION 7: HANDLING AND STORAGE

- **Handling:** Avoid contact with skin and eyes. Do not breathe vapors or mists. Do not mix with acids.
  - **Storage:** Store in tightly closed, corrosion-resistant containers. Keep in a cool, dry, well-ventilated place away from incompatible substances.
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#### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Exposure Limits:

- **Sodium Hypochlorite (as Cl<sub>2</sub>):** ACGIH TLV – 0.5 ppm

##### Engineering Controls:

- Use in well-ventilated areas. Provide eyewash and safety showers.

##### Personal Protective Equipment:

- **Respiratory Protection:** Use appropriate respirator if ventilation is inadequate
  - **Hand Protection:** Impermeable gloves (nitrile or neoprene recommended)
  - **Eye Protection:** Chemical safety goggles
  - **Skin Protection:** Protective clothing and apron
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#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear to pale yellow liquid
Odor	Chlorine-like
pH	~11–13
Boiling Point	~100°C
Flash Point	Not applicable
Solubility	Completely soluble in water
Specific Gravity	~1.1–1.2

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#### SECTION 10: STABILITY AND REACTIVITY

- **Stability:** Stable under recommended storage conditions
  - **Reactivity:** Reacts with acids, ammonia, and some metals
  - **Hazardous Reactions:** May release chlorine gas on contact with acids
  - **Hazardous Decomposition Products:** Chlorine, oxygen
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#### SECTION 11: TOXICOLOGICAL INFORMATION

- **Exposure Routes:** Inhalation, ingestion, skin and eye contact
  - **Symptoms:** Irritation, burns, respiratory issues
  - **Acute Toxicity:** Sodium Hypochlorite - moderate oral toxicity
  - **Chronic Effects:** Repeated exposure may cause dermatitis and respiratory irritation
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#### SECTION 12: ECOLOGICAL INFORMATION

- **Ecotoxicity:** Toxic to aquatic life (due to Sodium Hypochlorite)
  - **Persistence:** Hypochlorite degrades in sunlight and neutral media
  - **Bioaccumulation:** Not expected
  - **Mobility:** Readily dissolves and disperses in water
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#### SECTION 13: DISPOSAL CONSIDERATIONS

- **Waste Treatment:** Dispose in accordance with local, regional, and national laws.
  - **Do not mix with other waste streams.**
  - **Avoid discharge into sewers or waterways.**
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#### SECTION 14: TRANSPORT INFORMATION

Transport Mode	UN Number	Proper Shipping Name	Class	Packing Group
Road (ADR)	UN1791	Hypochlorite Solution	8	III
Sea (IMDG)	UN1791	Hypochlorite Solution	8	III
Air (IATA)	UN1791	Hypochlorite Solution	8	III

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#### SECTION 15: REGULATORY INFORMATION

- **Labelling in accordance with GHS and UK CLP Regulations**
  - **Chemical Safety Assessment:** Not required for mixtures
  - All ingredients are listed or exempt under UK REACH
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#### SECTION 16: OTHER INFORMATION

##### HMIS Ratings:

- **Health:** 3
- **Flammability:** 0
- **Reactivity:** 1
- **PPE:** B (Gloves and eye protection)

##### Abbreviations:

- GHS: Globally Harmonized System
- CLP: Classification, Labelling and Packaging Regulation
- PPE: Personal Protective Equipment
- TLV: Threshold Limit Value

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