# Safety Data Sheet

Formula No: 1750
Revision Date: 2017/10/24
Superseded Date: 2015/05/01

## *Mirachem QX-470 Water Based Ink Remover*

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

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| Product name: | Mirachem QX-470 Water Based Ink Remover |
| Identified uses: | Concentrated industrial cleaner. |
| Use restrictions: | Use only for the purposes indicated on the label. |

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|---|---|---|---|
| Company: | Mirachem, LLC<br>P.O. Box 14059<br>Phoenix, Arizona 85063-4059<br>USA | | |
| Email address: | SDS@mirachem.com | | |
| Customer service: | USA (English) | Telephone: | 1 (800) 847-3527 |
| Emergency phone number(s): | USA (English, Business Hours)<br>Chemtrec (US, 24 hours) | Telephone:<br>Telephone: | 1 (800) 847-3527<br>1 (800) 424-9300 |

### 2. HAZARD(S) IDENTIFICATION

**GHS Classification**

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|---|---|
| SKIN CORROSION/IRRITATION: | Category 2 |
| EYE DAMAGE/IRRITATION: | Category 2A |
| ACUTE AQUATIC HAZARD: | Category 3 |

**GHS Label Elements**

Pictogram

Signal word: Warning

Hazard statements:
Causes skin irritation. (H315)
Causes serious eye irritation. (H319)
Harmful to aquatic life. (H402)

**Precautionary Statements**

Prevention:
Wash hands thoroughly after handling. (P264)
Wear protective gloves /eye protection/face protection. (P280)
Avoid release to the environment. (P273)

Response:
IF ON SKIN: Wash with plenty of water. (P302 + P352) If skin irritation occurs: Get medical advice/attention. (P332 + P313) Take off contaminated clothing and wash it before reuse. (P362 + P364)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338) If eye irritation persists: Get medical advice/attention. (P337 + P313)

Storage: None required.

Disposal: Dispose of contents/container in accordance with local/ regional/ national/ international regulations. (P501) See SECTION 13 – DISPOSAL CONSIDERATIONS, for additional waste disposal information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical characterization:** Mixture (water based)

| Ingredient: | CAS Number | Percent |
|---|---|---|
| Proprietary surfactant blend * | Proprietary | < 5 |

* Composition of this ingredient is a trade secret.

## 4. FIRST AID MEASURES

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| Protection of First-Aiders: | First aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTON, for specific personal protective equipment. |
| Inhalation: | No adverse effects are anticipated. Remove to fresh air. If breathing is difficult, get medical assistance. |
| Eye contact: | May cause serious eye damage. Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately seek medical attention. |
| Ingestion: | If swallowed, treat symptomatically and supportively. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If adverse health effects develop, persist or are severe, seek medical attention if you feel unwell. Never give anything by mouth to an unconscious person. |
| Skin contact: | Prolonged or repeated exposure may cause skin irritation. If on skin, wash with plenty of water. If you feel unwell or irritation develops or persists, get medical attention. Take off contaminated clothing and wash it before reuse. |
| Symptoms and effects, both acute and delayed: | Aside from the information provided above and below, no additional symptoms and effects are anticipated. |
| Notes to physician: | No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Skin contact may aggravate pre-existing dermatitis. |

## 5. FIRE-FIGHTING MEASURES

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| Suitable extinguishing media: | Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. Do not use direct water stream. May spread fire. |
| Unusual fire and explosion hazards: | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous thermal decomposition products: | Decomposition products may include the following materials; carbon dioxide, carbon monoxide, nitrogen oxides. |
| Special precautions for fire fighters: | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving personal risk or without suitable training. |
| Special protective equipment for fire fighters: | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

## 6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures: | Isolate area. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION. Refer to SECTION 7 – HANDLING AND STORAGE, for additional precautionary measures. |
| Environmental precautions: | Prevent from entering into soil, ditches, storm sewers, waterways and/or ground water. See SECTION 12 – ECOLOGICAL INFORMATION for additional information. |
| Methods for cleaning up: | Contain spilled material; keep from entering soil, surface waters or sewers.<br><br>*Small Spills:* Clean up with absorbent and collect absorbent for disposal in accordance with Federal, State or local disposal requirements.<br><br>*Large Spills:* Dike or otherwise contain spilled material to insure runoff does not reach a waterway. Collect and drum off material for disposal in accordance with Federal, State or local disposal requirements. Notify local, state or federal authorities if required. Rinse with water. See SECTION 13 – DISPOSAL CONSIDERATIONS and SECTION 15 – REGULATORY REQUIREMENTS for additional information. |

## 7. HANDLING AND STORAGE

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| Precautions for safe handling: | Avoid contact with skin and eyes. Avoid breathing spray or mist. Wash hands thoroughly after handling. Keep container closed. Promptly clean up spills. See SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION for additional information. |
| Conditions for safe storage, including incompatibilities: | Keep containers tightly closed. Protect from freezing; may rupture or degrade product. Store between 40°F (4°C) and 110°F (43°C). Keep out of reach of children.<br><br>The shelf life for unopened containers stored under the above conditions is 36 months from the date on the package. |
| Recommended packaging materials: | Use original container or clean plastic (polyethylene) containers. |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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| Control parameters: | None established (under ACGIH or OSHA.) |
| Engineering controls: | Good ventilation should be sufficient to control worker exposure to airborne contaminants. Provide additional ventilation as necessary to keep airborne concentrations of vapors/mists below threshold limit values. Provide eye wash station within close proximity to product usage. |
| Eye/Face protection: | Safety glasses with side shields (or chemical goggles) and face shield (if splashing is likely) to prevent eye and face exposure. |
| Skin protection: | Wear protective gloves/protective clothing as needed to prevent excessive skin contact. Where diluted product is heated to >140°F, wear thermal protective gloves. |
| Hand protection: | Wear chemical (alkali) resistant, impermeable gloves (nitrile, vinyl or latex of 4 mil thickness or greater) as needed to prevent skin contact. Where diluted product is heated to >140°F, wear thermal protective gloves. |
| Respiratory protection: | Under intended handling conditions, no respiratory protection is needed. |
| Personal hygiene: | Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
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| **Appearance:** | Water white to slightly yellow clear pourable liquid | **Vapor pressure @ 20°C** | 0.000 mm Hg* |
| | | **@ 37°C** | 0.000 mm Hg* |
| **Odor:** | Mild detergent odor | **Vapor density (air = 1)** | > 1 |
| **Odor threshold:** | Not available | **Relative density:** | Not established |
| **pH:** | 11.4 – 11.8 | **Solubility in water:** | Complete |
| **pH at use dilution:** | 10.8 -11.2 | **Partition coefficient:** | Not established |
| **Melting point:** | Not applicable to liquids | **Auto-ignition temperature:** | Not established |
| **Freezing point:** | 32°F (0 °C) | **Decomposition temperature:** | Not established |
| **Initial boiling point:** | 212°F (100°C) | **Viscosity @ 20°C:** | < 100 cSt |
| **Evaporation rate:** | > 1 (Butyl Acetate = 1) | **Liquid density @ 20°C:** | 1.04 g/cm$^3$ |
| **Flash point:** | Not established | **VOC Content** | 0 g/l (0.0 lb./gal) |
| **Flammability:** | Not classified | | |
| **Flammable limits in air:** | Not established | | |

* Absolute (calculated)

## 10. STABILITY AND REACTIVITY

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| Chemical stability & reactivity: | The product is stable. |
| Possibility of hazardous reactions: | Under normal conditions of storage and use, hazardous polymerization will not occur. |
| Conditions to avoid: | No specific data. |
| Incompatible materials: | Avoid contact with strong acids, strong bases or strong oxidizers. |
| Hazardous decomposition products: | Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce carbon monoxide and nitrogen oxides. |

## 11. TOXICOLOGICAL INFORMATION

The GHS health hazard classifications have been calculated adhering to GHS guidelines for mixtures. The Acute Toxicity Estimates for this mixture ($ATE_{mix}$) are representative of these calculations.

Likely routes of exposure: Inhalation _____ Skin contact X Eye contact X Ingestion _____

**Acute Toxicity:**

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|---|---|---|---|
| Oral: | Not classified *(OSHA HCS 2012)* | $LD_{50}$ $ATE_{mix}$ | > 500 but < 2,500 mg/kg |
| Dermal: | Not classified *(OSHA HCS 2012)* | $LD_{50}$ $ATE_{mix}$ | > 1,100 but < 2,500 mg/kg |
| Inhalation: | No relevant data available. | | |
| Other routes: | Not applicable. | | |

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| Skin corrosion/irritation: | May be irritating to skin |
| Serious eye damage/irritation: | May cause serious eye irritation |
| Skin sensitization: | No component of this mixture is known to be a skin sensitizer. |
| Respiratory sensitizer: | No relevant data available. |

**Chronic Toxicity:**

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| Mutagenicity: | No component of this mixture is known to be a mutagen or genotoxin. |
| Carcinogenicity: | No component of this mixture is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen. |
| Teratogenicity: | No component in this mixture is known to be a teratogen. |
| Developmental / Fertility effects: | No known significant effects or critical hazards. |

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| Specific Target Organ Toxicity (STOT) | Single dose: | No relevant data available. |
| | Repeat exposure: | No relevant data available |
| Aspiration hazard: | No relevant data available. | |

## 12. ECOLOGICAL INFORMATION

The GHS environmental hazard classifications have been calculated adhering to GHS guidelines for mixtures. The Acute Aquatic Toxicity Estimates for this mixture ($ATE_{mix}$) are representative of these calculations.

**Toxicity:**

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|---|---|---|---|---|
| Acute Aquatic Toxicity | Fish | Category 3 | $LC_{50}$ $ATE_{mix}$ | > 10 but < 100 mg/l |
| | Crustacea | Category 3 | $EC_{50}$ $ATE_{mix}$ | > 10 but < 100 mg/l |
| | Algae | No relevant data | $ErC_{50}$ $ATE_{mix}$ | No relevant data |
| Chronic Aquatic Toxicity | No relevant data available. | | | |

Persistence and degradability: The individual components of this mixture are readily biodegradable.
Bioaccumulative potential: No relevant data available.
Mobility in soil: No relevant data available.

## 13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Empty containers may retain some product residues. Rinse container before disposal. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff with soil and waterways.

RCRA Classification: Unused disposed material is ***not*** a RCRA Hazardous Waste.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, State and local waste disposal requirements may be more restrictive or otherwise different from Federal laws and regulations.

## 14. TRANSPORT INFORMATION

| | | | |
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| UN Number: | UN 1760 | Transportation Hazard Class: | 8 |
| UN Proper Shipping Name: | Corrosive liquids, n.o.s. | UN Packing Group: | PG III |
| ADR (EU Carriage): | Class 8: Corrosive, PG III | RID (Rail) | Class 8: Corrosive, PG III |
| AND/ADNR (Inland water): | Not available | ICAO/IATA (Air) | Class 8: Corrosive |
| IMO/IMDG (Marine): | Class 8: Corrosive | | |
| DOT Shipping Name: | Corrosive Liquid, n.o.s. (contains alcohols, $C_{10}$-$C_{14}$, ethoxylated), 8, PG III | | |
| NMFC Freight Class: | Cleaning Compound NOI, 48580, Sub 3, Class 55 | | |
| HS Tariff Classification (Schedule B) | 3402.90.5030 | | |
| Special Precautions: | No known special precautions. | | |

## 15. REGULATORY INFORMATION

**US Federal Regulations**

**SARA Title III**

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|---|---|---|
| Section 302 – Extremely Hazardous Substance | This product does not contain chemicals at levels which require reporting under this statue. | |
| Section 302.4 & 304: CERCLA: Hazardous Substances | Releases of this product to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. | |
| Sections 311 & 312 | Immediate (acute) Health Hazard | Yes |
| | Delayed (chronic) Health Hazard | No |
| | Fire Hazard | No |
| | Reactive Hazard | No |
| | Sudden Release of Pressure | No |
| Section 313 | This product does not contain chemicals at levels which require reporting under this statue. | |
| **TSCA** | All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances. | |

**US State Regulations**

**California**

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| California Safe Drinking Water and Toxic Enforcement Act (Proposition 65) | This product does not contain any materials currently listed by California as chemicals known to cause cancer or known to have reproductive toxicity under Proposition 65. |

**International Regulatory Information**

Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warrantee, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with their Federal, State/Province, and local laws. The following specific information is made for the purpose of complying with numerous specific foreign regulations.

**Country Substance (Chemical) Inventories**

| | | |
|---|---|---|
| Canada | DSL | The individual components of this mixture are listed. |
| United States | TSCA | All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances. |

## 16. OTHER INFORMATION

**HMIS Rating:**

| | |
|---|---|
| Health | 2 |
| Flammability | 0 |
| Physical Hazards | 0 |
| Protective Equipment | |

**NFPA Rating:**

| | |
|---|---|
| Health | 2 |
| Flammability | 0 |
| Reactivity | 0 |
| Special | |

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Mirachem shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current status of scientific and technical knowledge.

Original Preparation Date: May 1, 2015
Latest Revision Date: October 24, 2017