

# SAFETY DATA SHEET KLEEN-INK® CLEANING SOLUTION

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: Kleen-Ink® Cleaning Solution

PRODUCT ID: FS362, FS363, FS364, FS365

DATE: 31 July 2014

SUPERSEDES DATE: 27 January 2006

MANUFACTURER: Mopec

ADDRESS: 800 Tech Row

Madison Heights, MI 48071

(800) 362-8491

The intended uses of the chemical(s): This product is used in forensics. Standard industrial classification (SIC): 2835

The public cannot use the chemical; trained professionals use the chemical only.

24/7 EMERGENCY PHONE: INFOTRAC 800-535-5053 Call collect internationally 352-323-3500

24/7 HEALTH EMERGENCIES : 800-222-1222 National Poison Control Center.

## SECTION 2 - HAZARDS IDENTIFICATION



GHS:

SIGNAL WORD: WARNING

Avoid contact with eyes and skin. Keep out of reach of children.

The product may be harmful if it is inhaled or swallowed.

POTENTIAL HEALTH EFFECTS:

CODE OF HAZARD STATEMENTS:

Physical hazards.

H227-Combustible liquid.

Health Hazards.

H315-Causes skin irritation.

H320-Causes eye irritation.

H333-May be harmful if inhaled.

Environmental hazards.

H402-Harmful to aquatic life.

CODE OF PRECAUTIONARY STATEMENTS:

General.

P101-Keep out of reach of children.

P103-Read label before use.

Prevention statements.

P202-Do not handle until all safety precautions have been read and understood.

P261-Avoid breathing fume/gas/mist/vapor spray.

P262-Do not get in eyes, on skin or on clothing.

P264-Wash thoroughly after handling.

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

P280-Wear protective gloves/protective clothing/ eye protection/face protection.

Response statements.

P312-Call a POISON CENTER or doctor/physician if you feel unwell.

P331-DO NOT induce vomiting.

P340, Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P352, Wash with plenty of soap and water.

P362, Take off contaminated clothing and wash before reuse.

Storage.

P403-Store in a well-ventilated area.

ROUTES OF ENTRY: Eye contact, skin adsorption, ingestion and inhalation.

CARCINOGENICITY: None.

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## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME    | CAS #     | EINECS #  | %  | REACH Reg. # |
|------------------|-----------|-----------|----|--------------|
| Sodium hydroxide | 1310-73-2 | 231-185-4 | NA | Yes          |
| 2-butoxy ethanol | 11-76-2   | 203-905-0 | NA | Yes          |
| Methanol         | 67-56-1   | 200-659-6 | NA | Yes          |
| Aqua Ammonia     | 7664-41-7 | 231-635-3 | NA | No           |
| Water            | 7732-18-5 | 231-791-2 | NA | No           |

Note the individual percentages are proprietary.

See Section 8 for Personal Protection (PPE).

## SECTION 4 - FIRST AID MEASURES

**INHALATION:** Move to fresh air free from risk of further exposure. If person not breathing call 9-1-1, then apply rescue breathing. Seek medical attention as soon as possible.

**EYE CONTACT:** Flush with clean, lukewarm water raising upper and lower eyelids at low pressure for 15 minutes. Remove contact lenses, if present, after the first five minutes and continue to rinse the eyes. Seek medical attention if no relief.

**SKIN CONTACT:** Rinse area with clean water for 15-20 minutes. Call poison control center or doctor for treatment advice.

**INGESTION:** Call a poison control center or doctor immediately for treatment advice. **DO NOT INDUCE VOMITING.** Lower the head when person is vomiting to minimize entry into throat and lungs.

## SECTION 5 - FIREFIGHTING MEASURES

**FLASHPOINT AND METHOD:** 210°F (98.9°C)

**FLAMMABLE LIMITS:** LEL = NE% UEL = NE%

**EXTINGUISHING METHOD:** Use dry chemicals, carbon dioxide and foam.

**FIRE OR EXPLOSION HAZARDS:** This material under complete combustion will form oxides of carbon and nitrogen.

**SPECIAL FIREFIGHTING PROCEDURES:** Keep upwind of fire. Full emergency equipment with self-contained breathing apparatus and full protective clothing to be worn by firefighters

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**SPILL OR LEAK PROCEDURES:**

Wear PPE. Avoid breathing vapor or mist. Isolate the area and prevent material from getting into waterways.

Absorb liquid with vermiculite, sand or other inert absorbent and place the collected material in a closed container.

Finish cleaning the area with small amounts of soap and water on the spill area.

## SECTION 7 - HANDLING AND STORAGE

**STORAGE TEMPERATURE:**

Keep container tightly closed and keep in cool dry area. Provide a cool well-ventilated area.

**SPECIAL SENSITIVITY:** Avoid contact with skin and eyes, wear PPE in (section 8).

**HANDLING AND STORAGE PRECAUTIONS:** Avoid breathing the vapor or mist. Use normal safety procedures and good personal hygiene. Wash thoroughly after use and before eating, drinking, chewing gum or using tobacco.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**EYE PROTECTION:** Use safety glasses or goggles (EN 166), there is potential for vapour or mist exposure to cause injury to the eyes.

**SKIN PROTECTION:** Wear chemical resistant glove (Nitrile.) Wear long sleeve shirts, long pants and shoes and socks.

**RESPIRATORY PROTECTION:** Wear respirator if the airborne conditions result in an aerosol forming ((NIOSH/MSHA TC 23C).

**OCCUPATIONAL EXPOSURE LIMITS:** OSHA PEL TWA; Sodium hydroxide, 2 mg/m<sup>3</sup>, 2 butoxy ethanol, 120 mg/m<sup>3</sup>, Methanol 260 mg/m<sup>3</sup> and Aqua ammonia, 2 mg/m<sup>3</sup>.

**ENGINEERING CONTROLS:** Provide adequate ventilation when product is used. Eyewash and shower should be provided in mixing and loading areas.

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### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid.

Odor: Mild odor.

Solubility: Soluble in water

pH: > 7.0

Specific gravity (water=1) <1

Boiling point: 212 °F (100 °C)

Note: These physical data are typical values based on material tested but may vary from sample to sample.

### SECTION 10 - REACTIVITY

STABILITY: This product is stable material under normal conditions of storage and handling.

HAZARDOUS POLYMERIZATION: Will not polymerize.

CONDITIONS TO AVOID: Avoid all ignition sources.

INCOMPATIBLES: Avoid strong oxidizing agents, bases and acids. Reacts with aluminum and mild steel.

DECOMPOSITION PRODUCTS: Product will burn and the products of complete combustion are oxides of carbon. Metal may produce hydrogen.

### SECTION 11 - TOXICOLOGICAL/ECOLOGICAL INFORMATION

Oral LD<sub>50</sub> (rat) = NE LC

50 (rat) = NE

The significant routes of exposure are eyes, skin, ingestion and inhalation.

### SECTION 12 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: The product is a flammable liquid, wear PPE as outlined in Section 8. Dispose according to the regulations of local, state and Federal regulatory agencies.

### SECTION 13 - TRANSPORTATION INFORMATION

US DOT (ground) SHIPPING NAME: Not regulated.

IATA (air) SHIPPING NAME: CARGO AIRCRAFT ONLY; Not regulated.

IMO (water) SHIPPING NAME: Not regulated.

### SECTION 14 - REGULATORY INFORMATION

OSHA STATUS: Combustible.

TSCA STATUS: None.

CERCLA REPORTABLE QUANTITY: Methanol, 5000 lbs (2268 kgs).

CALIFORNIA PROPOSITION 65: None.

RCRA STATUS: F003, Methanol.

SARA 311/312 HAZARD NOTIFICATION/REPORTING

IMMEDIATE Y FIRE Y SUDDEN RELEASE OF PRESSURE N

DELAYED Y REACTIVE Y

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS: None.

SECTION 311/312 HAZARD CATEGORIES: None.

SECTION 313 TOXIC CHEMICALS: Methanol.

RIGHT TO KNOW: All listed ingredients are found in MA, NJ and PA.

EUROPEAN COMMUNITY:  

WHMIS: 

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## SECTION 15 – OTHER INFORMATION/APPROVALS

National Fire Protection Association (NFPA)  
Hazardous Materials Identification System (HMIS)

NFPA HMIS

0 Least

2 Health 1 Slight 2 Health

1 Flammability 2 Moderate 1 Flammability

1 Instability 3 High 1 Reactivity

4 Severe H PPE

## SECTION 16 – ABBREVIATIONS /DISCLAIMER

REASON FOR ISSUE: This new SDS complies with GHS regulations (Section 2 pictograms) and REACH compliance (Section 3).

APPROVAL DATE: 5 August 2014

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### ABBREVIATIONS:

CAS # Chemical Abstract Service Number

Commercial Chemical Sales

°C Celsius temperature scale

Prop. Proprietary

TLV Threshold Limit Value

STEL Short-term Exposure Limit

OSHA Occupational Safety & Health

NFPA National Fire Protection Agency  
Information System

NTP National Toxicology Program

RCRA Resource Conservation Recovery Act

EC<sub>50</sub> Effective Dose

LD<sub>50</sub> Lethal Dose

LEL Lower explosive limit

NDA No Data Available

NE None established

≤ Less Than or Equal To > Greater Than or Equal To

CNS Central Nervous System

DSL Canada

EEC European Economic Commission

EU European Union

MAK Germany

PICCS Philippines

UK United Kingdom

VOC Volatile organic content

ACGIH American Conference of Government Industrial Hygienists

SARA Superfund Amendments and Reauthorization Act

AICS Australian Inventory of Chemical Substances

IARC International Agency for Research on Cancer

Taiwan List of Toxic Chemical Substances regulated under Taiwan Toxic Chemical Substances Control Act of 1086

EINECS European Inventory of existing

°F Fahrenheit temperature scale

PE Personal Protective Equipment

TWA Time Weighted Average

PEL Permissible Exposure Limit

NIOSH National Institute of Safety & Health

WHMIS Workplace Hazardous Materials

IARC Int. Agency for Research on Cancer

TSCA Toxic Substance Control Act

LC<sub>50</sub> Lethal Inhalation Concentration

CAS Chemical Abstract Service Number

UEL Upper explosive limit

ND Not determined

NA Not Applicable

CI China

ECL Korean Existing Chemicals List

ENCs Japanese Existing and New Chemical List

MAC Netherlands

MITI Japan

SWISS Giftliste 1

USA United States

### Disclaimer:

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