

Safety Data Sheet (SDS)

1823-K2

Issue date 01/30/2018

Reviewed on 10/15/2018

1. Identification

- **Product Identifier**
- **Name of the product:** 1823-K2 Professional Cleaner
- **Recommended Use:** Alkaline Cleaner

- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Ramsay Browne Chemical & Company
PO Box 6425
Moraga, CA 94570
General Number: (925) 280-1661
- **Emergency telephone number: (925) 280-1661**

2. Hazard(s) Identification



- **Health hazard, Environment, and other Warnings**
Emergency overview: Water based alkaline cleaner. Keep off of skin and especially out of eyes. Flush immediately from eyes to avoid possible permanent damage.

GHS Classifications:

Health, Acute toxicity, 4 Oral

Health, Acute toxicity, 4 Dermal

Health, Skin corrosion/irritation, 3

Health, Serious Eye Damage/Eye Irritation, 2 A

Health, Acute toxicity, 5 Inhalation

GHS Phrases:

H301 – Harmful if swallowed

H312 – Harmful in contact with skin

H316 – Causes mild skin irritation

H319 – Causes serious eye irritation

H333 – May be harmful if inhaled

GHS Precautionary Statements:

P210 – Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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2. Hazard(s) Identification (continued)

- P260** – Do not breathe dust/fume/gas/mist/vapors/spray.
- P262** – Do not get in eyes, on skin, or on clothing.
- P264** – Wash 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/protective clothing/eye protection/face protection
- P301+310** – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- 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+341** – IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338** – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P321** – Specific treatment (see supplemental first aid instructions on this label)
- P332+313** – If skin irritation occurs – get medical advice/attention.
- P337** – If eye irritation persists – get medical advice/attention.
- P363** – Wash contaminated clothing before reuse.
- P403+233** – Store in a well-ventilated place. Keep container tightly closed.
- P405** – Store locked up
- P501** – Dispose of contents/container to an approved waste disposal plant.

3. Composition / Information on ingredients

CAS #	Percentage	Chemical Name
111-76-2	<8%	2-Butoxyethanol
9016-45-9	<8%	Poly (oxy-1, 2-ethanediyl), .alpha. – (nonylphenyl)- .omega. –hydroxy-
7758-29-4	<5%	Triphosphoric acid, pentasodium salt
1310-73-2	<5%	Sodium Hydroxide
N/A	>74%	Proprietary, non-hazardous, non-regulated

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4. First-aid measures

- **Inhalation:** Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
- **Skin Contact:** Take off contaminated clothing and shoes immediately. Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. If reddening develops and/or persists, obtain medical attention.
- **Eye Contact:** Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. If irritation or pain persists, get immediate medical attention and continue rinsing eyes during transport to hospital.
- **Ingestion:** Rinse mouth with water. Give 3-4 glasses of water or milk to dilute stomach contents. Do NOT induce vomiting. If vomiting occurs, give more water or milk. Never give anything by mouth to an unconscious person. Get immediate medical attention.
- **Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labeling (see Section 2) and/or Section 11.
- **Indication of any immediate medical attention and special treatment needed:** No data available.

5. Fire Fighting Measures

- **Flammability:** No data available
- **Flash Point:** DNA
- **Flash Point Method:** DNA
- **Burning Rate:** No data available
- **Autoignition Temp:** No data available
- **LEL:** DNA
- **UEL:** DNA
- **Extinguishing Media:** Water spray, carbon dioxide, alcohol-resistant foam, dry chemical
- **Special Hazards Arising from the Substance or Mixture:** Carbon dioxides, Nitrogen oxides (NO_x), Phosphorous Oxides, Sodium Oxides, Silicon Oxides
- **Advice for Firefighters:** Firefighters should wear full-face, positive-pressure respirators.
- **Further Information:** If incinerated, may release toxic fumes. Use water spray to cool unopened containers. Do NOT use high volume water jet to extinguish fire, as the force of the water jet may cause fire to spread. See Section 7 for more information on safe handling. See Section 8 for more information on personal protection equipment. See Section 13 for disposal information.

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6. Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Keep from contacting skin or eyes. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
- **Environmental precautions:** Prevent further release (leakage/spillage) if safe to do so. Do not allow product to enter drains. Do not allow to drain to environment.
- **Method and materials for containments and cleaning up:** Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Neutralizing agent like Sodium Bicarbonate may also be used to absorb/neutralize any spilled material. Place contaminated material according to Section 13. After spillage has been collected, area may be flushed with water or wet-brushed. Ensure adequate ventilation.
- **Reference to other sections:** Comply with federal, state and local regulations on reporting spills. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for information on proper disposal.

7. Handling and Storage

- **Handling Precautions:** Avoid breathing vapors or mist. Avoid contact with eyes, skin or clothing. Use approved, original containers only. Keep containers closed when not in use. Do not expose containers to open flame, excessive heat or direct sunlight. Do not puncture or drop containers. Handle with care and avoid spillage on the floor. Keep material away from incompatible materials. Wash thoroughly after handling. Ensure adequate ventilation.
- **Storage Requirements:** Keep away from heat, sparks and flames. Do not store in direct sunlight. Store away from strong acids, strong reducing agents, strong oxidizing agents, organic materials, chlorinated solvents, reactive metals (Zinc & Aluminum) and their alloys (Brass), galvanized surfaces, Copper and its alloys, Nickel and its alloys, Alkali metals (Lithium, Sodium, Potassium, etc), Tin & Tin oxides, Lead, Iron, Ammonia, Cyanides, Activated Carbon, Nitro compounds (Nitromethane, etc), Azides, Anhydrides and Halogens.

8. Exposure Controls/Personal Protection

- **Engineering Controls:** All ventilation should be designed in accordance with OSHA standard (29 CFR 910.94). Use local exhaust at filling zones and where leakage is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.
- **Personal Protective Equipment:**
- **Eye/face protection:** When using unheated material use safety glasses and compatible gloves according to HMIS PP, B. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
- **Skin protection:** Handle with gloves made from Neoprene, Nitrile or Buna Rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching

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8. Exposure Controls/Personal Protection (continued)

glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

- **Body Protection:** Chemically resistant gloves and safety glasses are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.
- **Respiratory protection:** Full-face dust/vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds.
- **Control of environmental exposure:** Prevent leakage or spillage if safe to do so. Do not let material enter drains.

- **Components with workplace control parameters:**
- **Component(s):** 2-Butoxyethanol; Sodium Hydroxide
- **CAS No(s):** 111-76-2; 1310-73-2
- **USA NIOSH Recommended Exposure Limits (C):** 2 mg/m³
- **USA NIOSH Recommended Exposure Limits (ST):** 2 mg/m³
- **USA ACGIH (CEIL/TLV):** 2 mg/m³
- **USA ACGIH (C/TLV):** 2 mg/m³
- **USA OSHA Table Z-1 Limits for Air Contaminants (C):** 2 mg/m³
- **USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminants (TWA):** 2 mg/m³

- **Biological occupational exposure limits:**
- **Component:** 2-Butoxyethanol
- **CAS No:** 111-76-2
- **Parameters:** Butoxyacetic acid (BAA)
- **Biological Specimen:** Urine
- **USA ACGIH Biological Exposure Indices:** 200 mg/g

9. Physical and Chemical Properties

- **Appearance:** Clean, amber liquid
- **Physical State:** Liquid
- **Odor Threshold:** Not determined
- **Particle Size:** DNA
- **Spec. Grav./Density:** 1.085 g/ml (9.05 lbs/gal)
- **Viscosity:** Not determined
- **Sat. Vap. Conc.:** Not determined
- **Boiling Point:** Not determined
- **Flammability:** (solid, gas) Not determined

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9. Physical and Chemical Properties (continued)

- **Partition Coefficient:** Not determined
- **Vapor Pressure:** (mm Hg @ 20°C): Not determined
- **pH @ 1%:** 11.0-12.0
- **Evap. Rate:** Not determined
- **Molecular Weight:** MIXTURE
- **Decomp. Temp:** Not determined
- **Odor:** Mild, glycol ether-like
- **Molecular Formula:** MIXTURE
- **Solubility:** 100%
- **Softening Point:** DNA
- **Percent Volatile:** 6.25%
- **Heat Value:** Not Determined
- **Freezing/Melting Pt.:** Not Determined
- **Flash Point:** DNA
- **Octanol:** Not Determined
- **Vapor Density (air=1):** 4.08
- **VOC:** 57 g/L
- **Bulk Density:** Not determined
- **Auto-Ignition Temp:** Not determined
- **UFL/LFL:** Not determined

10. Stability and Reactivity

- **Stability:** Product is stable under normal conditions.
- **Conditions to Avoid:** Incompatibilities, flames, ignition sources.
- **Materials to Avoid:** Peroxides, Nitric Acid, strong acids, strong reducing agents, strong oxidizing agents, organic materials, chlorinated solvents, reactive metals (Zinc & Aluminum) and their alloys (Brass), galvanized surfaces, Alkali metals (Lithium, Sodium, Potassium, etc), Tin & Tin oxides, Lead, Ammonia, Cyanides, Activated Carbon, Nitro compounds (Nitromethane, etc.), Azides, Anhydrides and Halogens. Extended contact – Copper and its alloys, Nickel and its alloys and Iron.
- **Hazardous Decomposition:** Carbon Oxides, Nitrogen Oxides (NO_x), Phosphorous Oxides, Sodium Oxides and Silicon Oxides.
- **Hazardous Polymerization:** Will not occur.

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11. Toxicological Information

- **Component(s):** 2-Butoxyethanol; Poly(oxy-1, 2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-; Triphosphoric acid, pentasodium salt; Sodium Hydroxide.
- **CAS No:** 111-76-2; 9016-45-9; 7758-29-4; 1310-73-2
- **Acute Toxicity:**
- **LD50 Oral – Rat:** 470 mg/kg
- **LC50 Inhalation – Rat:** 450 ppm (4 h)
- **LD50 Dermal – Rabbit:** 220 mg/kg
- **LD50 Intraperitoneal – Rat:** 220 mg/kg
- **LFD50 Intravenous- Rat:** 307 mg/kg
- **Skin Corrosion/Irritation:** Rabbit skin – Causes severe burns (24 h)
- **Serious Eye Damage/Eye Irritation:** Rabbit eyes- Corrosive (24 h)
- **Respiratory or Skin Sensitation:** Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals (Poly(oxy-1, 2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-).
- **Germ Cell Mutagenicity:**
- **IARC 3 –Group 3:** Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol).
- **ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- **NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
- **OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
- **Reproductive Toxicity:** Overexposure may cause reproductive disorder(s) based on tests with laboratory animals (2-Butoxyethanol).
- **Specific Target Organ Toxicity – Single Exposure:** No data available
- **Specific Target Organ Toxicity – Repeated Exposure:** No data available
- **Aspiration Hazard:** No data available.
- **Additional Information:**
- **Component:** 2-Butoxyethanol; RTECS – KJ8575000
- **Component:** Poly(oxy-1, 2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-; RTECS – AX0247000
- **Component:** Triphosphoric acid, pentasodium salt; RTECS – YK4570000
- **Component:** Sodium Hydroxide; RTECS – WB4900000

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12. Ecological Information

- **Component(s):** 2-Butoxyethanol; Poly(oxy-1, 2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-; Triphosphoric acid, pentasodium salt; Sodium Hydroxide.
- **CAS No:** 111-76-2; 9016-45-9; 7758-29-4; 1310-73-2
- **Toxicity:**
- **Toxicity to fish:**
- **LC50 – other fish:** 220 mg/l (96 h)
- **LC50 – Oncorhynchus mykiss (Rainbow Trout):** 45.4 mg/l (96 h)
- **LC50 – Gambusia affinis (Mosquito Fish):** 125.0 mg/l (96 h)
- **LC50 – Lepomis macrochirus (Bluegill Sunfish):** 1.0 mg/l (96 h)
- **Mortality LOEC – Pimephales promelas (Fathead Minnow):** 2.0 mg/l (144 h)
- **Mortality NOEC – Pimephales promelas (Fathead Minnow):** 1.8 mg/l (144 h)
- **Toxicity to daphnia and other aquatic invertebrates:**
- **EC50 – Daphnia magna (Water Flea):** 12.2 – 17.0 mg/l (48 h)
- **Mortality NOEC – Daphnia magna (Water Flea):** 10.0 mg/l (144 h)
- **Mortality LOEC – Daphnia magna (Water Flea):** 20.0 mg/l (144 h)
- **Immobilization EC50 – Daphnia :** 40.38 mg/l (48 h)
- **Toxicity to algae:**
- **EC50 – Desmodesmus subspicatus (Green Algae):** 6.8 mg/l (24 h)
- **Growth Inhibition LOEC – Pseudokirchneriella subcapitata:** 16.0 mg/l (96 h)
- **Growth Inhibition NOEC – Pseudokirchneriella subcapitata:** 8.0 mg/l (96 h)
- **Persistence and Degradability:** No data available
- **Bioaccumulative potential:** No data available
- **Mobility in Soil:** No data available
- **Results of PBT and vPvB assessment:** Not required/conducted
- **Other Adverse Effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

13. Disposal Considerations

- **Product:** Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.
- **Contaminated Packaging:** Dispose of as unused product.

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14. Transport Information

- **DOT Class:** Not regulated
- **DOT (US):** Non-regulated material, liquid
- **IMDG:** Not dangerous goods
- **IATA:** Not dangerous goods

15. Regulatory Information

Component	CAS No / %	Codes
2-Butoxyethanol	111-76-2, <8%	HAP, MASS, NJHS, OSHAWAC, PA, SARA311/312, SARA313, TSCA, TXAIR
Poly(oxy-1, 2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9, <8%	MA, NJHS, PA, SARA311/312, TSCA
Triphosphoric acid, pentasodium salt	7758-29-4, <5%	MASS, NJHS, PA, TSCA
Sodium Hydroxide	1310-73-2, <5%	CERCLA, CSWHS, MASS, NJHS, OSHAWAC, PA, SARA311/312, TSCA, TXAIR

- **Regulatory Key Descriptions**
- **CERCLA** = Superfund clean up substance
- **CSWHS** = Clean Water Act Hazardous substances
- **HAP** = Hazardous Air Pollutants
- **MASS** = MA Massachusetts Hazardous Substances List
- **NJHS** = New Hersey Right to Know Hazardous Substances
- **OSHAWAC** = OSHA Workplace Air Contaminants
- **PA** = PA Right-to-Know List of Hazardous Substances
- **SARA311/312** = SARA 311/312 Toxic Chemicals
- **SARA313** = SARA 313 Title III Toxic Chemicals
- **TSCA** = Toxic Substances Control Act
- **TXAIR** = TX Air Contaminants with Health Effects Screening Level

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16. Other Information

Disclaimer: The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that Ramsay Browne Chemical & Co. believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of Ramsay Browne Chemical & Co's control, Ramsay Browne Chemical & Co makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.