

Safety Data Sheet (SDS)

1823-34 Degreaser

Issue date 07/11/2015

Reviewed on 09/14/2018

1. Identification

- **Product Identifier**
- **Name of the product:** 1823-34 Degreaser
- **Recommended Use:** Industrial cleaner, concrete cleaner or flooring adhesive remover
- **Use not recommended:** Not for use on asphalt

- **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

- **Classification of the substance or mixture:**

- **Health hazard, Environment, and other Warnings**
- **GHS Signal Word:** Danger
- **GHS Classifications:**
- **Health**, Acute toxicity, 4 Oral
- **Health**, Aspiration hazard, 1
- **Health**, Acute toxicity, 4 Dermal
- **Health**, Skin corrosion/irritation, 2
- **Health**, Respiratory or skin sensitization, 1 Skin
- **Health**, Serious Eye Damage/Eye Irritation, 1
- **Health**, Acute toxicity, 5 Inhalation
- **Health**, Carcinogenicity, 2

- **GHS Phrases:**
- **H302** – Harmful if swallowed
- **H304** – May be fatal if swallowed and enters airways
- **H312** – Harmful in contact with skin
- **H315** – Causes skin irritation

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2. Hazard(s) Identification (continued)

- **H317** – May cause an allergic skin reaction
- **H318** – Causes serious eye damage
- **H333** – May be harmful if inhaled
- **H351** – Suspected of causing cancer

- **GHS Precautionary Statements:**
- **P210** – Keep away from heat/sparks/open flames/hot surfaces. No smoking
- **P233** – Keep container tightly closed
- **P261** – Avoid breathing 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+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 continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- **P321** – Specific treatment (see supplementary first aid instructions on this label).
- **P332+313** – If skin irritation occurs. Get medical advice/attention.
- **P362** – Take off contaminated clothing and wash before reuse.
- **P370+378** – In case of fire: Use water spray, water fog, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
- **P403+235** – Store in a well-ventilated place. Keep cool.
- **P405** – Store locked up
- **P501** – Dispose of contents/container to an approved waste disposal plant.

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3. Composition / Information on ingredients

CAS #	Percentage	Chemical Name
5989-27-5	60-75%	Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)-
N/A	0-29%	Proprietary, non-hazardous, non-regulated
111-76-2	5-10%	2-Butoxyethanol
25155-30-0	5-10%	Benzenesulfonic acid, dodecyl-, sodium salt
68603-42-9	1-5%	Amides, coco, N, N-bis (hydroxyethyl)

4. First-aid measures

- **Inhalation:** If inhaled, move person into fresh air. Monitor respiratory function. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. If symptoms persist, obtain medical attention.
- **Skin Contact:** Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. Remove contaminated clothing and wash before reuse. Consult a physician if irritation persists.
- **Eye Contact:** Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses if present and easy to do so. Get immediate medical attention. Continue rinsing eyes during transport to hospital.
- **Ingestion:** Rinse mouth with water. Do NOT induce vomiting unless instructed to do so. Material can enter lungs (aspiration hazard) during swallowing or vomiting resulting in lung inflammation or other lung injury. 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. This material has an aspiration hazard. Any potential danger from aspiration must be weighed against possible oral toxicity when determining whether to induce vomiting. Consider activated charcoal and/or gastric lavage.
- **Indication of any immediate medical attention and special treatment needed:**
No data available

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5. Firefighting measures

- **Flammability:** Combustible Liquid Class IIIA
- **Flash Point:** > 60°C (140°F)
- **Flash Point Method:** (TCC)
- **Burning Rate:** No data available
- **Autoignition Temp.:** No data available
- **LEL:** No data available
- **UEL:** No data available

- **Extinguishing Media:**
 - Water Spray
 - Water Fog
 - Carbon Dioxide
 - Alcohol-Resistant Foam
 - Dry Chemical

- **Special Hazards Arising from the Substance or Mixture:**
 - Carbon Dioxides
 - Hydrocarbon particulate
 - Nitrogen Oxides (NO_x)
 - Sulfur 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.
 - Beware of vapors accumulating to form explosive concentrations.
 - Vapors can accumulate in low areas.
 - 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.
- Remove all sources of ignition.
- If any equipment is necessary, ensure that it is non-sparking and electrically-protected.

- **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.

- **Methods and Materials for Containments and Cleaning Up:**
- Ensure adequate ventilation.
- Contain spillage and absorb with liquid-binding material (sand, diatomite, universal binders, vermiculite) and placed in container for disposal.
- Spill may also be diluted with equal volume of water and absorbed (as above) or collect with an electrically-protected vacuum cleaner or by wet-brushing. Collected waste should then be placed in container for disposal.
- Dispose of contaminated material according to Section 13.

- **Reference to Other Sections:**
- 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.
- Keep containers closed when not in use.
- Do not expose containers to open flame, excessive heat, or direct sunlight.
- Keep away from sources of ignition.

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7. Handling and storage (continued)

- Do not smoke while using material.
- Take measures to prevent the buildup of electrostatic charge.
- Do not puncture or drop containers.
- Handle with care and avoid spillage on the floor (slippage).
- Keep material out of reach of children.
- Keep material away from incompatible materials.
- Wash thoroughly after handling.

- **Storage Requirements:**
- Keep container tightly closed.
- Avoid inhalation of vapors or mist upon opening container.
- Store in a well-ventilated place.
- Do not store at elevated temperatures.
- Do not store in direct sunlight.
- Store away from strong acids, strong bases, strong oxidizing agents and strong reducing agents.

8. Exposure controls / personal protection

- **Engineering Controls:** All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation 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 Equip:**
- **Eye/face protection:** When using material use safety goggles, gloves and apron according to HMIS PP, C. A vapor respirator according to HMIS PP, U is also strongly recommended if working with material in poorly ventilated spaces. 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 PVC, neoprene, nitrile, butyl-rubber or fluorinated-rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

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8. Exposure controls / personal protection (continued)

- **Body Protection:** Chemically resistant gloves, apron and safety goggles are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.
- **Respiratory Protection:** Full-face 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):** Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-; 2-Butoxyethanol
- **CAS No(s):** 5989-27-5; 111-76-2
- **USA NIOSH (TWA/REL):** 24 mg/m³
- **USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminants (TWA):** 240 mg/m³
- **USA Workplace Environmental Exposure Levels (WEEL):** 165.5 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:** Clear, colorless to amber liquid
- **Physical State:** Liquid
- **Odor Threshold:** Not determined
- **Particle Size:** No data available
- **Spec Grav./Density:** 0.869 g/ml (7.25 lbs/gal)
- **Viscosity:** Not determined
- **Sat. Vap. Conc.:** Not determined
- **Boiling Point:** > 100°C (212°F)
- **Flammability:** (solid, gas): Combustible Liquid Class
- **Partition Coefficient:** Not determined

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9. Physical and chemical properties (continued)

- **Vapor Pressure:** (mm Hg @ 20°C): Not determined
- **pH:** @ 100%: 7.0-9.0
- **Evap. Rate:** Not determined
- **Molecular weight:** MIXTURE
- **Decomp Temp:** Not determined
- **Odor:** Citrus
- **Molecular Formula:** MIXTURE
- **Solubility:** 100%
- **Softening Point:** Not determined
- **Percent Volatile:** 75.5%
- **Heat Value:** Not determined
- **Freezing/Melting Pt:** Not determined
- **Flash Point:** > 60°C (140°F)
- **Octanol:** Not determined
- **Vapor Density: (air = 1):** Not determined
- **VOC:** 651 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:** Strong acids, strong bases, strong oxidizing agents and strong reducing agents.
- **Hazardous Decomposition:** Carbon Oxides, Hydrocarbon particulate, Nitrogen Oxides (NO_x) and Sulfur Oxides.
- **Hazardous Polymerization:** Will not occur.

11. Toxicological information

- **Component(s):** Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-; 2-Butoxyethanol; Benzenesulfonic acid, dodecyl-, sodium salt; Amides, coco, N, N-bis(hydroxyethyl).
- **CAS No(s):** 5989-27-5; 111-76-2; 25155-30-0; 68603-42-9

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11. Toxicological information (continued)

- **Acute Toxicity:**
- **LD50 Oral** – Rat: 470 mg/kg
- **LD50 Dermal** – Rabbit: 220 mg/kg
- **LD50 Intraperitoneal** – Rat: 220 mg/kg
- **LD50 Intravenous** – Rat: 307 mg/kg
- **LC50 Inhalation** – Rat: 450 ppm (4h)

- **Skin Corrosion/Irritation:** Skin – Rabbit: Irritating to skin (24 h)
- **Serious Eye Damage/Eye Irritation:** Risk of serious damage to eyes.
- **Respiratory or Skin Sensitation:** Skin – Mouse: May cause sensitization by skin contact.
- **Germ Cell Mutagenicity:** No data available.
- **Carcinogenicity:**
- Oral – Rat (Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-); Carcinogenic by RTECS criteria: Kidney, ureter, bladder; Tumorigenic effects – Kidney, testicular tumors.
- Oral – Mouse (Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-); Equivocal Tumorigenic agent by RTECS criteria: Gastrointestinal tumors.

- This product is or contains two components that are not classifiable as to their carcinogenicity to humans and one component that is classifiable as possibly arcinogenic to humans based on its IARC, ACGIH, NTP or OSHA classification.

- **IARC:** 2B – Group 2B: Possibly carcinogenic for humans (Amides, coco, N, N-bis (hydroxyethyl). 3 – Group 3: Not classifiable as to its carcinogenicity to humans (Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-). 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 disorders based on tests with laboratory animals.

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11. Toxicological information (continued)

- **Specific Target Organ Toxicity – Single Exposure:** Respiratory system – May cause respiratory irritation.
- **Specific Target Organ Toxicity – Repeated Exposure:** No data available.
- **Aspiration Hazard:** May be fatal if swallowed and enters airways.

- **Additional Information:**
- **Component:** Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-; RTECS: GW6360000
- **Component:** 2-Butoxyethanol; RTECS: KJ8575000
- **Component:** Benzenesulfonic acid, dodecyl-, sodium salt; RTECS: DB6825000
- **Component:** Amides, coco, N, N-bis(hydroxyethyl); RTECS: GG6200000

12. Ecological information

- **Component(s):** Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-; 2-Butoxyethanol; Benzenesulfonic acid, dodecyl-, sodium salt; Amides, coco, N, N-bis(hydroxyethyl)
- **CAS No(s):** 5989-27-5; 111-76-2; 25155-30-0; 68603-42-9

- **Toxicity:**
- **Toxicity to fish:**
- **LC50- Brachydanio rerio (Zebra Fish):** 3.6 mg/l (96 h)
- **LC50 – Oncorhynchus mykiss (Rainbow Trout):** 3.2 – 5.6 mg/l (96 h)
- **Mortality LOEC – Oncorhynchus mykiss (Rainbow Trout):** 5.6 mg/l (72 h)
- **Mortality NOEC – Oncorhynchus mykiss (Rainbow Trout):** 3.1 mg/l (72 h)
- **Flow-through test LC50 – Pimephales promelas (Fathead Minnow):** 0.72 mg/l (96 h)

- **Toxicity to daphnia and other aquatic invertebrates:**
- **EC50 – Daphnia magna (Water Flea):** 4.2 mg/l (48 h)
- **Mortality NOEC – Daphnia:** 4.0 mg/l (168 h)
- **Immobilization EC50 – Daphnia magna (Water Flea):** 0.36 mg/l (48 h)

- **Toxicity to bacteria:**
- **EC50 – Sludge Treatment:** 3.94 mg/l
- **Persistence and Degradability:** No data available
- **Bioaccumulative potential:**

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12. Ecological information (continued)

- **Bioaccumulation – Lepomis macrochirus (Bluegill Sunfish):** 64 µg/l
- **Bioconcentration Factor (BCF):** 220
- **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 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.

14. Transport information

- **DOT (US):** Non-regulated material, liquid
- **IMDG:** Non-regulated material, liquid
- **IATA:** Non-regulated material, liquid

15. Regulatory information

Component	CAS/%	Codes
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	5989275 / 60-75%	MASS, NJHS, PA, SARA311/312, TSCA
2-Butoxyethanol	111762 / 5-10%	HAP, MASS, NJHS, OSHAWAC, PA, SARA311/312, SARA313, TSCA, TXAIR
Benzenesulfonic acid, dodecyl-, sodium salt	25155300 / 5-10%	CERCLA, CSWHS, MASS, NJHS, PA, SARA311/312, TSCA
Amides, coco, N, N-bis(hydroxyethyl)	68603429 / 1-5%	MASS, NJHS, PA, PROP65, SARA311/312, TSCA

Regulatory Key Descriptions:

CERCLA = Superfund Clean Up Substance

CSWHS = Clean Water Act Hazardous Substances

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15. Regulatory information (continued)

HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

NJHS = NJ Right-to-know Hazardous Substances

OSHA = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

PROP65 = CA Prop 65

SARA311/312 = SARA 311/312 Toxic Chemicals

SARA313 = SARA 313 Title III Toxic Chemicals

TOXICRCRA – RCRA Toxic Hazardous Wastes (U-List)

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

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.

HMIS Hazard ratings:	Health: 2	Fire: 1	Instability: 0	Other C (Goggles, gloves, apron)
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HMIS-ratings (scale 0-4)

1823-34 Degreaser	
HEALTH	2
FIRE	1
REACTIVITY	0
PERSONAL PROTECTION	C

Hazard Ratings: Least =0, Slight =1, Moderate =2, High =3, Extreme =4

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