Ramsay Browne Chemical & Co.
"Your Partners in Purity"

Safety Data Sheet (SDS)

1823-SHC

Issue date 03/17/2018 Reviewed on 09/25/2018

1. Identification

- **Product Identifier**
- **Name of the product:** 1823-SHC Hood & Smoke House Degreaser
- **U.N. No.:** UN3266
- **U.N. Dangerous Goods Class:** 8
- **Recommended Use:** Oven, Smoke House & Stove Hood Degreaser

- **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

- **Signal Word:** Warning! Corrosive Liquid!

- **EU Labeling & Classification:** This product meets the definition of the following hazard class as defined by the European Economic Community Guidelines.
- **EU Classification:** Harmful if swallowed (Xn), Irritating to eyes (Xi)
- **EU Risk Phrases:** R, R34 Irritating to eyes.
- **EU Safety Phrases:** S 24/25 Avoid contact with skin and eyes.

Ramsay Browne Chemical & Co.
"Your Partners in Purity"

Safety Data Sheet (SDS)

1823-SHC

Issue date 03/17/2018 Reviewed on 09/25/2018

3. Composition / Information on ingredients

CAS #	WT %	Chemical Name	Hazard Symbol; Risk Phrases
1310-58-3	<22%	Potassium Hydroxide	Hazard Classification: C Risk Phrases: R34
1310-73-2	<19%	Sodium Hydroxide	Hazard Classification: C Risk Phrases: R34
6834-92-0	<9%	Sodium Metasilicate	Hazard Classification: R34 Risk Phrases: R34
CAS #	WT %	Chemical Name	Hazard Symbol; Risk Phrases
127087-87-0	<4%	Nonyl Phenol Ethoxylate	N/A

The specific identities of certain components of this formulation are withheld as trade secrets accordance with 29 CFR 1910.1200.
NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000.
See Section 3 for full text of Risk Phrases and Safety Phrases.

4. First-aid measures

- Contaminated Individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and SDS to health professional with contaminated individual.
- **Skin Exposure:** Immediately rinse material off skin with running water; remove contaminated clothing and shoes. Then wash with soap and water. If heavy contamination has occurred, then pile the clothing in a manner which limits further exposure and insert them into washing machine. Otherwise, thoroughly clean contaminated clothing and shoes before use. Get medical attention if irritation persists.
- **Eye Exposure:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids and rinse well under them. Get medical attention.
- **Inhalation:** Remove from exposure. If individual is not breathing, administer cardiopulmonary resuscitation (CPR) and get immediate medical attention. If individual is breathing, but with difficulty, get medical attention.

Ramsay Browne Chemical & Co.
"Your Partners in Purity"

Safety Data Sheet (SDS)

1823-SHC

Issue date 03/17/2018 Reviewed on 09/25/2018

4. First-aid measures (continued)

- **Ingestion:** Do not induce vomiting. Do not give anything by mouth to an unconscious person. Immediately drink large quantities of milk or water. Get medical attention.

5. Firefighting measures

- **Flash Point:** Not Applicable
- **Autoignition Temperature:** Not Applicable
- **Flammable Limits (in air by volume, %):** Not Applicable
- **Fire Extinguishing Materials:** Use fire extinguishing materials appropriate for surrounding fire.
- **Unusual Fire & Explosion Hazards:** Not Applicable
- **Special Fire-Fighting Procedures:** Not Available

6. Accidental release measures

- **Spill & Leak Response:** Uncontrolled releases should be responded to by appropriately trained personnel using pre-planned procedures. Proper protective equipment should be used.
- Remove all sources of ignition. Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate protective equipment as specified in section 8.
- **Spills:** Wear protective clothing and equipment. Never discharge directly into a lake, pond, stream, river or other natural body of water. Sweep up and recycle into process if contamination does not present a problem. Use appropriate protective equipment if dust is generated or contact with eyes or skin is expected. Flush any residues down a sanitary sewer only.
- US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. U. S. Regulations (CERCLA) requires reporting spills and releases to soil, water and air in excess of reportable quantities.

7. Handling and storage

- **Work Practices & Hygiene Practices:** As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke or apply cosmetics while handling this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

Ramsay Browne Chemical & Co.
"Your Partners in Purity"

Safety Data Sheet (SDS)

1823-SHC

Issue date 03/17/2018 Reviewed on 09/25/2018

7. Handling and storage (continued)

- **Storage & Handling Practices:** All employees who handle this material should be trained to handle it safely. Avoid contact with eyes, skin and clothing. Empty drums should be completely drained (triple rinsed), properly bunged and promptly returned to a drum reconditioner or disposed of properly. Open containers slowly on a stable surface. Containers of this product must be properly labeled. Storage areas of this product should be clearly identified, well-illuminated, clear of obstruction and accessible only to trained and authorized personnel. Tore containers in a cool, dry location away from direct sunlight. Keep product from freezing. Keep container tightly closed when not in use. Observe all warnings and precautions listed for this product.
- Use approved equipment for transportation of drums to avoid puncturing or rupturing. Do not use air pressure to transfer. After handling, always wash hands thoroughly with soap and water.
- **Respiratory Protection (NIOSH Approved):** If the exposure limit is exceeded and engineering controls are not feasible, a half face piece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
- **Eye Protection:** Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards. Maintain eye wash fountain and quick drench facilities in the work area.
- **Body Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate to prevent skin contact. If necessary refer to appropriate Standards of Canada or appropriate Standards of the EU, Australian Standards or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or

Ramsay Browne Chemical & Co.
"Your Partners in Purity"

Safety Data Sheet (SDS)

1823-SHC

Issue date 03/17/2018 Reviewed on 09/25/2018

7. Handling and storage (continued)

where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

- **Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition for details.

8. Exposure controls / personal protection

- **Symptoms of Overexposure by Route of Exposure:** The most significant routes of overexposure for this product are by inhalation and by ingestion. The symptoms of overexposure are described in the following paragraphs.
- **Inhalation:** May cause irritation to nose and throat.
- **Ingestion:** Ingestion of large amounts will cause gastrointestinal upset.
- **Skin Contact:** Continuous contact may cause skin irritation.
- **Eye Contact:** Direct contact may cause irritation, redness and pain.

- **Health Effects or Risks from Exposure:**
- **Potential Acute Health Effects:** No information found.
- **Chronic:** This product does NOT contain compounds known to be carcinogens, i.e. cause cancer, according to NTP, IARC or OSHA.
- **Aggravation of Pre-Existing Conditions:** No information found.
- Ventilation & Engineering Controls: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use a chemical fume hood or local exhaust ventilation and process enclosure if necessary, to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used

9. Physical and chemical properties

- **Bulk Density:** No Data
- **Specific Gravity @ 20°C:** 1.268 (Water = 1)
- **Solubility in Water:** 100%
- **Vapor Density (Air = 1):** No Data
- **Odor:** Mild Amine
- **% Volatiles by Volume @ 21°C (70°F):** No Data

Ramsay Browne Chemical & Co.
"Your Partners in Purity"

Safety Data Sheet (SDS)

1823-SHC

Issue date 03/17/2018 Reviewed on 09/25/2018

9. Physical and chemical properties (continued)

- **Evaporation Rate (n-BuAc=):** No Data
- **Melting Point:** No Data
- **Boiling Point:** No Data
- **pH:** 12.8><13.5
- **Appearance and Color:** Clear Dark Amber
- **Vapor Pressure, mm Hg:** No Data

10. Stability and reactivity

- **Stability:** Stable under normal conditions of use and storage.
- **Decomposition Products:** Heated to decomposition, it emits fumes of sodium oxide, temperatures above 884° evolve toxic sulfur oxides.
- **Materials with which substance is incompatible:** Because of the slight alkaline nature of this product, avoid contact with acids.
- **Hazardous Polymerization:** Will not occur.
- **Conditions to Avoid:** Heat, moisture, incompatibles.

11. Toxicological information

- **Toxicity Data:** The specific toxicology data available for components greater than 1% in concentration are as follows.

Sodium Silicate	Oral-Musus LD50	770 mg/kg
Potassium Hydroxide	2 mg/m3 (ceiling)	2.0 mg/m3 (ceiling)
Sodium Hydroxide	TLV 2mg/M	TLV 2mg/M

- **Routes of Entry:** Eye, skin contact, inhalation and ingestion.
- **Toxicity to animals:** Not available
- **Chronic effects on humans:** Not available
- **Other toxic effects on humans:** Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact (corrosive, irritant), of eye contact (corrosive), of ingestion.
- **Special remarks on toxicity to animals:** Not available
- **Special remarks on chronic effects on humans:** May affect genetic material (mutagenic)
- **Special remarks on other toxic effects on humans:**
- **Acute Potential Health Effects:**
- **Skin:** Causes severe skin irritation and burns.
- **Eyes:** Causes severe eye irritation and burns. May cause irreversible eye injury.

Ramsay Browne Chemical & Co.
"Your Partners in Purity"

Safety Data Sheet (SDS)

1823-SHC

Issue date 03/17/2018 Reviewed on 09/25/2018

11. Toxicological information (continued)

- **Inhalation:** Causes severe irritation and burns of the respiratory tract and mucous membranes. Irritation may lead to chemical pneumonitis
- **Ingestion:** Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes severe irritation and burns of the gastrointestinal (digestive) tract with abdominal pain, vomiting and possible death. May cause perforation of the digestive tract.
- **Chronic Potential Health Effects:** Chronic contact with dilute solutions of potassium hydroxide can cause dermatitis. Inhalation can produce chronic productive cough, and shortness of breath.

12. Ecological information

- **Environmental Fate:** The high pH (alkalinity) of undiluted or un-neutralized material is harmful to aquatic life. All undiluted material should be kept out of any storm drains, creeks, rivers, estuaries, bays, seas and oceans.

13. Disposal considerations

- **Preparing Wastes for Disposal:** This alkaline material must be neutralized before disposal. Do not dump into sewers, on the ground, or into any body of water. Whatever cannot be saved for recovery for recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. Waste and container disposal must be in accordance with appropriate U.S. Federal, State and local regulations, those of Canada, Australia, EU Member States and Japan.

14. Transport information

- **DOT Classification:** Corrosive Liquid, Basic, Inorganic, N.O.S., (Containing Potassium Hydroxide, Sodium Hydroxide), 8, UN 3266, PGII, ERG #154

15. Regulatory information

- Additional Regulations:
- OSHA Hazard Communication Rule, 29 CFR 1910.1200: According to the OSHA Hazard Communication Standard this product is considered hazardous because it contains Potassium Hydroxide, Sodium Hydroxide

Ramsay Browne Chemical & Co.
"Your Partners in Purity"

Safety Data Sheet (SDS)

1823-SHC

Issue date 03/17/2018 Reviewed on 09/25/2018

15. Regulatory information (continued)

- Federal, State & International Regulations – Part 1:
- SARA 313 Information: This product contains NO Toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372. Potassium Hydroxide, Sodium Hydroxide
- Federal, State & International Regulations – Part 2:
- CERCLA/Superfund, 40 CFR 117, 302: This compound contains the following regulated compounds, subject to 40 CFR 117, 302. Potassium Hydroxide, Sodium Hydroxide
- California Proposition 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product does not contain chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. [22 CCR 12705 (b)]
- WHMIS: This SDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS Contains all of the information required by the CPR
- European Economic Community Information:
- EU Labeling and Classification: This product meets the definition of the following hazard class as defined by the European Economic Community Guidelines.
- EY Classification: Harmful if swallowed (Xn), Irritating to eyes (Xi)
- EU Risk Phrases: R. R34 Irritating to eyes
- EU Safety Phrases: @ 24/25 Avoid contact with skin and eyes

16. Other information

Hazardous Material Information System (HMIS)

1823-SHC	
HEALTH	3
FIRE	0
REACTIVITY	0
PERSONAL PROTECTION	D

Hazard Scale:
0 = Minimal
1 = Slight

Ramsay Browne Chemical & Co.
"Your Partners in Purity"

Safety Data Sheet (SDS)

1823-SHC

Issue date 03/17/2018 Reviewed on 09/25/2018

16. Other information (continued)

2 = Moderate
3 = Serious
4 = Severe
* = Chronic hazard

Disclaimer of Responsibility:
The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.