

MATERIAL SAFETY DATA SHEET

BIRKO Corporation

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Liq. Smokehouse Clnr.**
 Product Code: 100214

Manufacturer

BIRKO Corporation
 9152 Yosemite Street
 Henderson, CO 80640
 (303) 289-1090
 www.birkocorp.com

Emergency Phone Numbers

Transportation: CHEMTREC (800) 424-9300
 Non-Transportation: BIRKO (303) 289-1090
 (800) 525-0476

2. COMPOSITION / INFORMATION ON INGREDIENTS

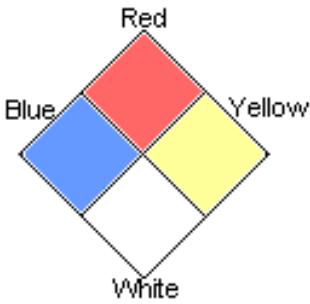
CAS #	Component	Exposure Limit
01310-73-2	Sodium Hydroxide (1)	PEL 2 mg/M3 (2) ACGIH TWA 2 mg/M3

(1) The RQ for this component is 1000 pounds of active ingredient. (2) corrosive

3. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form	Liquid
Color	Brown
Odor	Detergent
Boiling Point	212-220 F
Freeze Point	Not Determined
Water Solubility	Complete
Specific Gravity	1.4
Vapor Pressure	N/A
Vapor Density	N/A
Evaporation Rate	<1

NFPA Ratings



Blue - Health Hazard

- 4 - Deadly
- 3 - Extreme Danger
- 2 - Hazardous
- 1 - Slightly Hazardous
- 0 - Insignificant Hazard

Red - Fire Hazard

- 4 - Flash Point < 73°F
- 3 - Flash Point > 73°F and < 100°F
- 2 - Flash Point > 100°F and < 200°F
- 1 - Flash Point > 200°F
- 0 - Noncombustible

Yellow - Reactivity

- 4 - May Detonate
- 3 - Shock or Heat may Detonate
- 2 - Violent Chemical Change
- 1 - Unstable If Heated
- 0 - Stable

White - Specific Hazard

- ACID - Acid
- ALK - Alkali
- COR - Corrosive
- OXY - Oxidizer
- P - Polymerization
- ^A - Radioactive

 - Use No Water

0
2 2

ALK

4. FIREFIGHTING MEASURES

Flash Point

Not Applicable

Extinguishing Media

Water, Carbon Dioxide, Dry Chemical , Foam Blanket

Special Procedures

Always wear self - contained breathing apparatus when fighting a chemical fire.

Unusual Fire/Explosion Hazard

Carbon Monoxide / Carbon Dioxide gases (toxic) liberated during combustion.

5. REACTIVITY

Stability

Exothermic upon dilution with water.

Hazardous Polymerization

This product does not polymerize under normal storage and use conditions.

Incompatible Materials

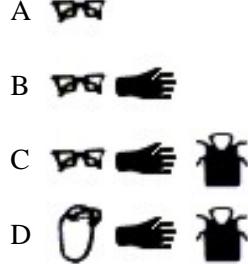
Acids, Amphoteric Metals (Aluminum, Brass, Copper, Tin, Zinc)

Decomposition Products

Carbon Monoxide / Carbon Dioxide gases (toxic) liberated during combustion.

HMIS

0	FLAMMABILITY
2	HEALTH
2	REACTIVITY
J	Personal Protection



Personal Protective Index



Hazard Index
4 - Severe
3 - Serious
2 - Moderate
1 - Slight
0 - Minimal

	Airline				Safety Glasses		Face Shield		Splash Goggles		Hood or Mask		Gloves		Synthetic Apron		Dust Respirator		Vapor Respirator		Dust + Vapor Respirator		Full Suit		Boots

6. POTENTIAL HEALTH EFFECTS

Routes of Entry

Eye contact, Skin contact, Inhalation, Ingestion

Acute / Chronic Inhalation	Mist from this product, or its solutions, will burn nasal, mucosal, bronchial passages and lung tissue.
Acute / Chronic Skin Contact	This product, or its working solutions will burn skin on contact.
Acute / Chronic Eye Contact	Burns on contact. Can cause blindness if not promptly treated.
Ingestion	Causes burns of gastrointestinal tract. Harmful or fatal if swallowed.

7. FIRST AID MEASURES

Inhalation	Remove from exposure. Administer oxygen if breathing is difficult. Resuscitate if necessary. Get medical help immediately.
Skin Contact	Immediately drench with flowing water for at least 15 minutes. Remove contaminated clothing as quickly as possible. Launder before reuse. Destroy contaminated shoes. Medical treatment for all burns must begin immediately, no matter how minor they seem.
Eye Contact	Immediately rinse eyes thoroughly in cool running water for at least 15 minutes. Get medical attention at once, preferably from ophthalmologist.
Ingestion	DO NOT induce vomiting. Have a conscious victim drink fruit juice or water to dilute. Never give an unconscious person anything by mouth. Get medical help immediately.

8. ACCIDENTAL RELEASE MEASURES

Avoid contamination of food, feed, waterway, or groundwater. Capture material and contain for re-use or disposal. Remainder may be neutralized with a mild acid (vinegar) and rinsed to a sewer.

9. WASTE DISPOSAL CONSIDERATIONS

Dispose in approved landfill according to Federal, State, and Local Regulations.

10. HANDLING AND STORAGE

Do not contaminate food, feed, or natural water. Keep container closed when not in use. Store in a cool, dry location. RELEASES HEAT WHEN MIXED WITH WATER. Supplier not responsible for disposition of this product. Do not reuse container. Maintain an eyewash station and safety shower in product handling areas.

11. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection	Splash Goggles
Skin Protection	Impermeable Gloves and Synthetic Apron. Wash exposed areas after handling.
Respiratory Protection	NIOSH approved self contained breathing apparatus for exposure above PEL.
Ventilation	General exhaust acceptable if PEL not exceeded.

12. TSCA CERTIFICATION

Birko Corporation certifies that all ingredients in this chemical formulation comply with all applicable rules or orders under TSCA and that we are not offering a chemical substance for entry in violation of TSCA or any applicable rule or order under TSCA.

13. APPROVALS

Reason for Issue	Amendments
Prepared By	Terry McAninch, Chemist
Approved By	Mike S. Brown
Title	Chief Operating Officer
Supercedes Date	10/20/1999
MSDS Number	I00214