BLUE CARDINAL
• CHEMICAL •

SAFETY DATA SHEET

Issue Date 12/20/2013 **Revision Date** 10/13/2016 **Version** 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Mister O.G.

Other means of identification

Product Code 5152

Recommended use of the chemical and restrictions on use

Recommended use Oven and Grill Cleaner

Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet

Company Name Blue Cardinal Chemical, LLC
3670 Scarlet Oak Blvd.
St. Louis, MO 63122
800-325-3312

Emergency telephone number

Emergency Telephone CHEMTEL 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

Liquefied Gas	
Skin Corrosion	Category 1C
Eye Damage	Category 1
Corrosive to Metals	

Label elements

Emergency Overview

DANGER

Hazard statements

Pressurized container: May burst if heated. Causes Severe skin burns and eye damage. May be corrosive to metals.

Appearance: White Foam **Physical state:** Liquefied Gas **Odor:** Lemon scent

Precautionary Statements - Prevention

Keep away from heat, sparks, open flames, and hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mists. Wash hands thoroughly after handling. Wear protective gloves and eye protection.

Precautionary Statements - Response

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statements - Storage

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, state, and national regulations. Keep only in original container. Absorb spillage to prevent material damage.

Hazards not otherwise classified (HNOC)

Other Information

• N/A

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT - %	TRADE SECRET
Propane/n-Butane	68476-86-8	3-7%	*
Sodium Hydroxide	1310-73-2	3-7%	*

***The exact percentage (concentration) of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

First aid measures

Skin Contact If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Eye Contact If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Inhalation If inhaled: Remove person to fresh air and keep comfortable for breathing.

Ingestion If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice or attention.

Most important symptoms and effect, both acute and delayed

Symptoms ACUTE HEALTH HAZARDS: Causes severe burns.
CHRONIC HEALTH HAZARDS: Dermatitis may occur due to long-term irritation. Sodium hydroxide may produce inflammation of the eyes, skin, and mucous membranes.

Indication of any immediate medical attention and special treatment needed

Note to physicians The absence of visible signs or symptoms of burns does not reliably exclude the presence of actual tissue damage.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use appropriate media for surrounding fire.

Unsuitable extinguishing media: N/A

Unusual fire and explosion hazards
Contact with some metals, particularly magnesium, aluminum, and galvanized zinc can generate hydrogen gas rapidly which is explosive. Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

Hazardous combustion products
None Known

Special fire fighting procedures
Move container from fire area if it can be done without risk. Cool containers with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Refer to section 8 for proper Personal Protective Equipment.

Methods and material for containment and cleaning up

Methods for containment & cleaning up Dike area to contain spill. Dilute spill with large quantities of water and then neutralize with a dilute acid. Flush area with water until clean. Wear PPE: safety goggles, chemical resistant clothing and gloves. Dispose of in accordance with all local, state and federal environmental rules and regulations. Check the pH of the waste to be disposed, if it is greater than 12.5 it must be handled as a RCRA hazardous waste. May be subject to disposal regulations: U.S. EPA 40 CFR 261. Hazardous waste Number(s): D002

RCRA status Waste likely considered Hazardous Waste D002 (Corrosive waste) due to the pH of the solution and the corrosive characteristic.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from sunlight. Store in a well ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Pressurized container: Do not pierce or burn, even after use. Store locked up.

Incompatible Materials Organic materials, concentrated acids metal. May react with certain food sugars.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

CHEMICAL NAME	OSHA PEL	ACGIH TLV
Propane/n-Butane	1000 ppm	N/A
Sodium Hydroxide	2 mg/m3	2 mg/m3

Appropriate engineering controls

Engineering Controls Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable limits.

Individual protection measures, such as personal protective equipment

Eye/face protection	Safety glasses should be worn during use.
Skin and body protection	Chemical resistant rubber or neoprene apron and chemically resistant boots to avoid skin and clothing contact.
Respiratory protection	Wear NIOSH/MSHA approved organic vapor respiratory protection.
Additional Measures	Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquefied Gas
Appearance	White Foam
Color	White
Odor	Lemon scent
Odor Threshold	N/D

Property	**Values**
pH	>13
Boiling Point	Approx. 212°F (100°C)
Freezing Point	N/D
Initial Boiling Point And Boiling Range	N/D
Flash Point	N/D
Flammability (Solid/Gas)	Not considered a flammable aerosol or an extremely flammable aerosol by OSHA (29CFR 1910.1200)
Upper/Lower Flammability Or Explosive Limits	N/D
Lower Flammability Limit	N/D
Upper Flammability Limit	N/D
Autoignition Temperature	N/D
Vapor Pressure (mm Hg)	17.5 @ 77°F (25°C)
Vapor Density (AIR=I)	1
Evaporation Rate	< 0.8 (Slow)
Specific Gravity (H2O=1)	1.085 @ 77°F (25°C)
Solubility in Water	100%
Partition Coefficient	N/D
Decomposition Temperature	N/D
Viscosity	N/D
Volatile Organic Compounds (VOC)	6%

10.STABILITY AND REACTIVITY

Reactivity
Chemically active metals and acids

Chemical Stability
Stable

Possibility of Hazardous Reactions
None Known

Conditions to Avoid
Organic materials, concentrated acids metal. May react with certain food sugars.

Incompatible Materials
Organic materials, concentrated acids metal. May react with certain food sugars.

Hazardous Decomposition Products
Oxides of carbon

11.TOXICOLOGICAL INFORMATION

Information on likely routes of exposure **Eyes, Ingestion, Inhalation, Skin**

Product Information

Skin Contact	Causes severe burns. Prolonged contact will destroy tissue.
Eye Contact	Causes severe burns, irritation, redness, tearing, pain, may result in loss of sight.
Inhalation	May cause irritation (possibly severe), chemical burns, upper respiratory damage, and pulmonary edema.
Ingestion	Will cause extensive damage to tissue and may be fatal

TOXICOLOGICAL INFORMATION:	
Sodium Hydroxide (1310-73-2)	Skin Corrosion/Irritation: Category 1 Eye Damage/Irritation: Category 1

Information on toxicological effects

Symptoms

MEDICAL CONDITION AGGRAVATED: Asthma, bronchitis, emphysema and other lung diseases and chronic nose, sinus or throat conditions. Skin irritation may be aggravated in individuals with existing skin disorders.

ACUTE HEALTH HAZARDS: Causes severe burns.

CHRONIC HEALTH HAZARDS: Dermatitis may occur due to long-term irritation. Sodium hydroxide may produce inflammation of the eyes, skin, and mucous membranes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity **OSHA**: No **ACGIH**: No **NTP**: No **IARC**: No **OTHER**:No

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans
Group 3 -Not classifiable as a human carcinogen
NTP (National Toxicology Program)
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

12. ECOLOGICAL INFORMATION

Ecotoxicity
Sodium Hydroxide (1310-73-2) LC50 (Bluegill Sunfish, 48hr) 99 mg/L; (Mosquito Fish 96hr) 125 mg/L; (Brown Shrimp, 48hr) 30-100 mg/L; (Brook Trout, 24hr) 25 ppm

Soil Mobility
This product is mobile in soil.

Persistence and Degradability
Component or components of this product are not biodegradable.

Bioaccumulation
This product is not expected to bioaccumulate.

Other Adverse Effects
None Known

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Dispose of in accordance with all local, state and federal environmental rules and regulations. Check the pH of the waste to be disposed, if it is greater than 12.5 it must be handled as a RCRA hazardous waste. May be subject to disposal regulations: U.S. EPA 40 CFR 261. Hazardous waste Number(s): D002
RCRA status	Waste likely considered Hazardous Waste D002 (Corrosive waste) due to the pH of the solution and the corrosive characteristic.

14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT

UN/ID No.	UN 1950
Proper Shipping Name	Aerosols, Ltd. Qty.
Hazard Class	2.2
Packing Group	N/A

AIR SHIPMENT

UN/ID No.	UN 1950
Proper Shipping Name	Aerosols, Flammable
Hazard Class	2.2
Packing Group	N/A

SHIPPING BY WATER: VESSEL (IMO/IMDG)

UN/ID No.	UN 1950
Proper Shipping Name	Aerosols
Hazard Class	2.2
Environmental Hazards Water	N/A
Packing Group	N/A

15. REGULATORY INFORMATION

International Inventories

TSCA All Chemicals are listed or exempt.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations

SARA 313

None

SARA 311/312 Hazard Categories

Acute Health Hazard.

CERCLA

Sodium Hydroxide (1310-73-2) Reporatable Quantity = 1,000 lbs

US State Regulations

California Proposition 65: NONE

International Regulations

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive liquid.

16. OTHER INFORMATION

NFPA	**Health hazards**	3	**Flammability**	1	**Reactivity**	1	**Other**	None
HMIS	**Health hazards**	3	**Flammability**	1	**Reactivity**	1	**Personal protection**	B

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Revision Note

N/A = Not Applicable; N/D = Not Determined

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet