SAFETY DATA SHEET

Blue Gold Industrial Cleaner

Revision Date 05/28/2019

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name Blue Gold Industrial Cleaner
Product Use Hard Surface Cleaner / Degreaser
Company Name Modern Chemical, Inc.
   P.O. Box 368
   Jacksonville AR 72078
   Office (501) 988-1311
   Fax (501) 988-2229
   Web www.bluegoldcleaner.com
EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053

SECTION 2 - HAZARDS INFORMATION

Signal Word Danger

Hazard Statements
- Health, Physical and Environmental Hazard Statements
  - Causes skin irritation
  - Causes serious eye damage
  - Harmful to aquatic life

Precautions
- Handling and Storage
  - Avoid breathing dust/fume/gas/mist/vapours/spray
  - Do not get in eyes, on skin, or on clothing
  - Wash thoroughly after handling
  - Avoid release to the environment
  - Use personal protective equipment as required (See Section 8)
  - Store in a closed container

Hazard Classification
- Category 2 Skin
- Category 1 Eyes
- Category 3 Acute Toxicity

Code
- P261
- P262
- P264
- P273
- P281 S8
- P404

SECTION 3 - COMPOSITION INFORMATION

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>COMMON NAME AND SYNONYMS</th>
<th>CAS #</th>
<th>IMPURITIES PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy)ethanol Sodium</td>
<td>Diethylene Glycol Monobutyl Ether</td>
<td>112-34-5</td>
<td>7 - 10%</td>
</tr>
<tr>
<td>Metasilicate Pentahydrate</td>
<td>Disodium Trioxosilicate</td>
<td>10213-79-3</td>
<td>4 - 5%</td>
</tr>
<tr>
<td>Nonylphenol Ethoxylate</td>
<td>Nonylphenyl-polyethylene glycol</td>
<td>9016-45-9</td>
<td>1 - 4%</td>
</tr>
</tbody>
</table>

Contains less than 5% Silica

SECTION 4 - FIRST AID MEASURES

EYE CONTACT
- Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids. Remove contact lenses if present and easy to do without injury to the eye and continue rinsing. If irritation persists obtain immediate medical attention, preferably from an ophthalmologist

SKIN CONTACT
- Wash contaminated skin with plenty of soap and water. Remove any contaminated clothing and wash before reuse. If irritation persists obtain immediate medical attention

INHALATION
- Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention

INGESTION
- DO NOT INDUCE VOMITING. If person is fully conscious, rinse mouth out and give one to two glasses of water to dilute and obtain immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration into the lungs

Aspiration Hazard
- Not considered to be an aspiration hazard

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE
- Eyes: Causes serious eye irritation, redness, tearing, pain, or possible corneal injury
- Skin: Can cause skin irritation, redness, drying or cracking
- Inhalation: Spray mist may cause mild irritation, to respiratory tract
- Ingestion: May be harmful if swallowed, Can cause irritation, of the mouth, throat, and esophagus

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE
- Eyes: Causes serious eye irritation, redness, tearing, pain, burns, or possible eye damage
- Skin: Causes skin irritation, redness, burning, drying or cracking
- Inhalation: Spray mist may cause irritation, to nose, throat, mucus membranes or respiratory tract
- Ingestion: May be harmful if swallowed, Causes irritation, burning in the mouth, throat, and esophagus. Symptoms may include, nausea, diarrhea, vomiting, abdominal pain
### SECTION – 5  FIRE FIGHTING MEASURES

**Extinguishing Media**
- Not flammable: Use extinguishing media for surrounding fire

**Hazardous Decomposition**
- Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, and other toxic fumes

**Reactive With**
- Incompatible with, strong oxidizing agents, strong acids

**Explosion Hazards**
- Not applicable

**Static Discharge**
- Not applicable

**Mechanical Impact**
- Not applicable

**Protective Equipment**
- Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

#### FLAMMABLE LIQUIDS HAZARD CLASSIFICATION

- **Criteria:** Flash point > 93.3°C (200°F)
- **NFPA Class:** III B
- **GHS:** Not applicable
- **WHMIS:** Not applicable

#### NFPA HAZARD RATINGS

- **Health:** 2
- **Flammability:** 0
- **Reactivity:** 0
- **Special Hazards:** FBG

### SECTION – 6  ACCIDENTAL RELEASE MEASURES

**Emergency Procedures**
- Warn personnel of spill

**Personal Precautions**
- Ventilate area, Avoid slipping on spilled product

**Protective Equipment**
- Safety Glasses, Chemical Gloves and Rubber Boots

**Containment**
- Use absorbent socks or pads to prevent spill from spreading

**Clean Up Procedures**
- Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water,
- Large Spills: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container
  - Vacuum or sweep up material and place in a disposal container

**Disposal**
- Dispose of material in accordance with all State and Federal Guidelines and Regulations

### SECTION – 7  HANDLING AND STORAGE

**Handling**
- Keep away from incompatible materials, Use appropriate safety equipment, Avoid eye and skin contact, Avoid inhalation of mist, May be harmful if swallowed, Wash thoroughly after handling, Avoid release to the environment

**Storage**
- KEEP OUT OF REACH OF CHILDREN, Keep container closed when not in use, Store away from incompatible materials

**Incompatible Materials**
- Incompatible with, strong oxidizing agents, strong acids

### SECTION – 8  EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>ACGIH (TWA 8)</th>
<th>ACGIH (STEL)</th>
<th>OSHA PEL (TWA 8)</th>
<th>OSHA (CEIL)</th>
<th>Significant Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy)ethanol</td>
<td>10 ppm</td>
<td></td>
<td></td>
<td></td>
<td>ED, SI, RT</td>
</tr>
<tr>
<td>Sodium Metasilicate Pentahydrate</td>
<td></td>
<td>None Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonylphenol Ethoxylate</td>
<td></td>
<td>None Established</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### PERSONAL PROTECTIVE EQUIPMENT

- Chemical Safety Glasses, Goggles or Face Shield
- Impervious Chemical Gloves
- Eye Wash and Safety Shower (Recommended)

### HMIS HAZARD RATINGS

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>B</td>
</tr>
</tbody>
</table>
SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point >212°F (100°C) TAG Closed Cup
Flammable Limits ND
Auto-Ignition Temp. ND
Physical State Liquid
Appearance Clear Blue
Odor Peppermint
Odor Threshold ND
Solubility 100%
Volatiles ND
VOC 0.5% at 5% dilution / 5 gm/L VOC in 5% dilution
LVP-VOC ND
Specific Gravity / Density 1.08
pH (± 0.3) 13.0
Viscosity ND
Freeze Point ND
Boiling Point ND
Vapor Density (air=1) ND
Vapor Pressure (mm Hg) ND
Evaporation Rate (nBuAc=1) ND
Partition Coefficient ND
Molecular Weight (g/mol) ~ 82.44
Decomposition Temperature ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity (Specific Test Data) None available
Chemical Stability Stable when stored below 49°C (120°F)
Hazardous Polymerization Will not occur
Conditions To Avoid Incompatible materials
Incompatible Materials Incompatible with, strong oxidizing agents, strong acids
Thermal Decomposition Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, sodium oxides, silicon oxides, and other toxic fumes

SECTION – 11 TOXICOLOGICAL INFORMATION

RUTES OF EXPOSURE
Eyes (Yes), Skin (Yes), Inhalation (Yes "Mist"), Ingestion (Yes)

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Causes serious eye irritation, redness, tearing, pain, or possible corneal injury
Skin Can cause skin irritation, redness, drying or cracking
Inhalation Spray mist may cause mild irritation, to respiratory tract
Ingestion May be harmful if swallowed, Can cause irritation, of the mouth, throat, and esophagus

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye irritation, redness, tearing, pain, burns, or possible eye damage
Skin Causes skin irritation, redness, burning, drying or cracking
Inhalation Spray mist may cause irritation, to nose, throat, mucus membranes or respiratory tract
Ingestion May be harmful if swallowed, Causes irritation, burning in the mouth, throat, and esophagus, Symptoms may include, nausea, diarrhea, vomiting, abdominal pain

Acute Tox Calculated Oral: 9,247 mg/kg Dermal: 16,755 mg/kg Inhaled: 57.5 mg/L
Acute Tox Category Not applicable (Oral >2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >12.5 mg/L) Dust or Mist
Additional Info
Target Organs Kidneys, Liver
Medical Conditions Preexisting, liver, kidney, disorders may be aggravated by exposure to this product
Notes to Physician In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption

CARCINOGENIC – This product contains concentrations above 0.1% of the following:

CHEMICAL NAME None Listed
NTP NA
ACGIH NA
IARC NA
GHS Category NA

MUTAGENIC AND REPRODUCTIVE EFFECTS – This product contains concentrations above 0.1% of the following:

CHEMICAL NAME None Listed
Germ Cell Mutagenicity NA
Toxic to Reproduction NA

COMPONENTS ACUTE TOXICITY

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>Type</th>
<th>Form</th>
<th>Subject</th>
<th>Result Value</th>
<th>Exposure Time</th>
<th>GHS Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonylphenol Ethoxylate</td>
<td>LD50</td>
<td>Oral</td>
<td>Rat</td>
<td>960 mg/kg</td>
<td>4 Hours (Mist)</td>
<td>4 (&gt;300, ≤2000 mg/kg)</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>Inhaled</td>
<td>Rat</td>
<td>1.15 mg/L</td>
<td></td>
<td>4 (&gt;1.0, ≤5 mg/L)</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>2,991 mg/kg</td>
<td></td>
<td>(&gt;2000 mg/kg)</td>
</tr>
<tr>
<td>Sodium Metasilicate Pentahydrate</td>
<td>LD50</td>
<td>Oral</td>
<td>Rat</td>
<td>847 mg/kg</td>
<td></td>
<td>4 (&gt;300, ≤2000 mg/kg)</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>7,281 mg/kg</td>
<td></td>
<td>(&gt;2000 mg/kg)</td>
</tr>
<tr>
<td>Glycol Ether DB</td>
<td>LD50</td>
<td>Oral</td>
<td>Rat</td>
<td>2,764 mg/kg</td>
<td></td>
<td>(&gt;2000 mg/kg)</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>Dermal</td>
<td>Rabbit</td>
<td></td>
<td></td>
<td>(&gt;2000 mg/kg)</td>
</tr>
</tbody>
</table>
SECTION - 1: ECOLOGICAL INFORMATION

CHEMICAL NAME

<table>
<thead>
<tr>
<th>Type</th>
<th>Subject</th>
<th>Subject Latin</th>
<th>Result Value</th>
<th>Exposure Time</th>
<th>GHS Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>Bluegill</td>
<td>Lepomis macrochirus</td>
<td>1.0 mg/L</td>
<td>96 Hours</td>
<td>2 (&gt;1, ≤10 mg/L)</td>
</tr>
<tr>
<td>EC50</td>
<td>Water Flea</td>
<td>Daphnia magna</td>
<td>12.2 mg/L</td>
<td>48 Hours</td>
<td>3 (&gt;10, ≤100 mg/L)</td>
</tr>
<tr>
<td>LC50</td>
<td>Zebrafish</td>
<td>Brachydanio rerio</td>
<td>210 mg/L</td>
<td>96 Hours</td>
<td>4 (&gt;100 mg/L)</td>
</tr>
<tr>
<td>EC50</td>
<td>Water Flea</td>
<td>Daphnia magna</td>
<td>1700 mg/L</td>
<td>48 Hours</td>
<td>4 (&gt;100 mg/L)</td>
</tr>
<tr>
<td>LC50</td>
<td>Fish</td>
<td>Leuciscus idus</td>
<td>1,300 mg/L</td>
<td>96 Hours</td>
<td>4 (&gt;100 mg/L)</td>
</tr>
<tr>
<td>EC50</td>
<td>Water Flea</td>
<td>Daphnia magna</td>
<td>&gt;100 mg/L</td>
<td>48 Hours</td>
<td>4 (&gt;100 mg/L)</td>
</tr>
</tbody>
</table>

Persistence And Degradability

- This product is inherently biodegradable according to the OECD definition
- No data available

Bioaccumulative Potential

- No data available

Mobility In Soil

- This product is water soluble and will move readily in soil and water

Other Adverse Effects

- Harmful to aquatic organisms due to pH shift

SECTION - 13: DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY STORM SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

ENVIRONMENTAL FATE

- This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components
- Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

SECTION - 14: TRANSPORT INFORMATION

DOT CLASSIFICATION

- UN Number: Not Regulated
- Proper Shipping Name: Non Hazardous – Compounds Cleaning Liquid
- Hazard Class: None
- Packing Group: None
- Label Codes: None
- Reportable Quantity (lbs): 154
- Response: None
- Marine Pollutant: No
- Hazard Label: None
- Secondary: None

TSCA

- CHEMICAL NAME: Glycol Ethers
- Sec 8(b) inventory: Yes
- Sec 8(d) Health And Safety: Yes
- Sec 4(a) Chemical Test Rules: Yes
- Sec 12(b) Export Notification: Yes

REPORTABLE QUANTITIES

- CHEMICAL NAME: EPCRA TPQ Sec 302
- EPCRA RQ Sec 304
- CERCLA RQ Sec 103
- TRI Sec 313
- RCRA Code: RMP TQ Sec 112

SARA

- CHEMICAL NAME: Glycol Ethers
- Section 311: None
- Section 311 / 312 Hazards: None

RIGHT TO KNOW

- CHEMICAL NAME: 2-(2-Butoxyethoxy)ethanol
- 0.1% Hazardous Chemical: Yes
- Acute: Yes
- Chronic: Yes
- Flammable: Yes
- Pressure: Yes
- Reactive: Yes

STATE

- CHEMICAL NAME: 2-(2-Butoxyethoxy)ethanol
- CA: Yes
- CT: Yes
- FL: Yes
- IL: Yes
- LA: Yes
- NJ: Yes
- NY: Yes
- PA: Yes
- MI: Yes
- MN: Yes
- MA: Yes
- RI: Yes
- WI: Yes

CALIFORNIA

- WARNING! This product contains chemicals known to the state of California to cause:
  - Cancer
  - Reproductive Harm
  - Developmental

CLEAN AIR ACTS

- CHEMICAL NAME: None Listed

CLEAN WATER ACTS

- CHEMICAL NAME: None Listed

INTERNATIONAL REGULATIONS

- The components of this product are listed on the chemical inventories of the following countries:
  - Australia: Yes
  - Canada: Yes
  - Europe (EINECS): Yes
  - Japan: Yes
  - Korea: Yes
  - UK: Yes

WHMIS Classification

- CHEMICAL NAME: D-2B

- Materials Causing Other Toxic Effects, Toxic Material
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service Registry</td>
</tr>
<tr>
<td>CEIL</td>
<td>Ceiling Limit (15 minutes)</td>
</tr>
<tr>
<td>CERCL</td>
<td>Comprehensive Environmental Response, Compensation, and Liability Act</td>
</tr>
<tr>
<td>CI</td>
<td>Cochlear Impairment</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
</tr>
<tr>
<td>EC50</td>
<td>Concentration of a chemical that gives half-maximal response</td>
</tr>
<tr>
<td>EPA</td>
<td>Environmental Protection Agency</td>
</tr>
<tr>
<td>Eye</td>
<td>(El = Iritation) (ED = Damage) (EV = Visual Impairment)</td>
</tr>
<tr>
<td>FBG</td>
<td>Full Bunker Gear</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
</tr>
<tr>
<td>HAP</td>
<td>California Hazardous Air Pollutant Clean Air Act</td>
</tr>
<tr>
<td>HMIS-A</td>
<td>Safety glasses</td>
</tr>
<tr>
<td>HMIS-B</td>
<td>Safety glasses, gloves</td>
</tr>
<tr>
<td>HMIS-C</td>
<td>Safety glasses, gloves, chemical apron</td>
</tr>
<tr>
<td>HMIS-D</td>
<td>Face shield, gloves, chemical apron</td>
</tr>
<tr>
<td>HMIS-E</td>
<td>Safety glasses, gloves, dust respirator</td>
</tr>
<tr>
<td>HMIS-F</td>
<td>Safety glasses, gloves, chemical apron, dust respirator</td>
</tr>
<tr>
<td>HMIS-G</td>
<td>Safety glasses, gloves, vapor respirator</td>
</tr>
<tr>
<td>HMIS-H</td>
<td>Splash goggles, gloves, chemical apron, vapor respirator</td>
</tr>
<tr>
<td>HMIS-I</td>
<td>Safety glasses, gloves, dust and vapor respirator</td>
</tr>
<tr>
<td>HMIS-J</td>
<td>Splash goggles, gloves, chemical apron, dust and vapor respirator</td>
</tr>
<tr>
<td>HMIS-K</td>
<td>Air line hood or mask, gloves, full chemical suit, boots</td>
</tr>
<tr>
<td>HMIS-X</td>
<td>Ask Supervisor</td>
</tr>
<tr>
<td>HS</td>
<td>California Hazardous Substance under the Clean Water Act</td>
</tr>
<tr>
<td>KD</td>
<td>Kidney Damage (nephropathy)</td>
</tr>
</tbody>
</table>

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