modern chemical, inc.
P.O. BOX 368, JACKSONVILLE, AR 72078

SAFETY DATA SHEET

Blue Gold Industrial Cleaner **Revision Date** 01/02/2018

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name **Blue Gold Industrial Cleaner** **Item** 109 (360-MC)

Product Use Hard Surface Cleaner / Degreaser

Company Name Modern Chemical, Inc. **Office** (501) 988-1311
P.O. Box 368 **Fax** (501) 988-2229
Jacksonville AR 72078 **Web** www.bluegoldcleaner.com

EMERGENCY TELEPHONE NUMBER **INFOTRAC** **(800) 535-5053**

SECTION – 2 HAZARDS INFORMATION

Pictogram

Signal Word Danger

Hazards	**Health, Physical and Environmental Hazard Statements**	**Hazard**	**Classification**	**Code**
	Causes skin irritation	Category 2	Skin	H315
	Causes serious eye damage	Category 1	Eyes	H318
	Harmful to aquatic life	Category 3	Acute Toxicity	H402

Precautions	**Handling and Storage**	**Code**
	Avoid breathing dust/fume/gas/mist/vapours/spray	P261
	Do not get in eyes, on skin, or on clothing	P262
	Wash thoroughly after handling	P264
	Avoid release to the environment	P273
	Use personal protective equipment as required (See Section 8)	P281 S8
	Store in a closed container	P404

SECTION – 3 COMPOSITION INFORMATION

(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

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

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 is present or occurs obtain 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 > 93.3ºC (200ºF)
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

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	Significant Exposure
2-(2-Butoxyethoxy)ethanol	10 ppm				
Sodium Metasilicate Pentahydrate	None Established				ED,SI,RT
Nonylphenol Ethoxylate	None Established				ED

PERSONAL PROTECTIVE EQUIPMENT

Chemical Safety Glasses, Goggles or Face Shield

Impervious Chemical Gloves

Eye Wash and Safety Shower (Recommended)

Ventilation

General Ventilation
Ventilate to keep vapors of this material below the lowest ppm listed above.
If over Threshold Limit Value use a MSHA / NIOSH approved respirator

HMIS HAZARD RATINGS

Health	2
Flammability	0
Reactivity	0
Personal Protection	B

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

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

SECTION – 10 STABILITY AND REACTIVITY

Reactivity (Specific Test Data)	None available
Chemical Stability	Stable when stored below 49ºC (120ºF)
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

ROUTES 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	NTP	ACGIH	IARC	GHS Category
None Listed	NA	NA	NA	NA

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

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

COMPONENTS ACUTE TOXICITY

CHEMICAL NAME	Type	Form	Subject	Result Value	Exposure Time	GHS Category
Nonylphenol Ethoxylate	LD50	Oral	Rat	960 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Inhaled	Rat	1.15 mg/L	4 Hours (Mist)	4 (>1.0, ≤5 mg/L)
	LD50	Dermal	Rabbit	2,991 mg/kg		(>2000 mg/kg)
Sodium Metasilicate Pentahydrate	LD50	Oral	Rat	847 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Rat	Dermal	> 5000 mg/kg		(>2000 mg/kg)
Glycol Ether DB	LD50	Oral	Rat	7,291 mg/kg		(>2000 mg/kg)
	LD50	Dermal	Rabbit	2,764 mg/kg		(>2000 mg/kg)

SECTION – 12 ECOLOGICAL INFORMATION

CHEMICAL NAME	Type	Subject	Subject Latin	Result Value	Exposure Time	GHS Category
Nonylphenol Ethoxylate	LC50	Bluegill	(Lepomis macrochirus)	1.0 mg/L	96 Hours	2 (>1, ≤10 mg/L)
	EC50	Water Flea	(Daphnia magna)	12.2 mg/L	48 Hours	3 (>10, ≤100 mg/L)
Sodium Metasilicate Pentahydrate	LC50	Zebrafish	(Brachydanio rerio)	210 mg/L	96 Hours	4 (>100 mg/L)
	EC50	Water Flea	(Daphnia magna)	1700 mg/L	48 Hours	4 (>100 mg/L)
2-(2-Butoxyethoxy)ethanol	LC50	Fish	(Leuciscus Idus)	1,300 mg/L	96 Hours	4 (>100 mg/L)
	EC50	Water Flea	(Daphnia magna)	>100 mg/L	48 Hours	4 (>100 mg/L)

Presistence And Degradability This product is inherently biodegradable according to the OECD definition

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	Proper Shipping Name n.o.s. (Chemicals) or "Limits"
Not Regulated	Non Hazardous – Compounds Cleaning Liquid

Hazard Class	Packing Group	Label Codes	Reportable Quantity (lbs)	Response	Marine Pollutant	Hazard Label	Secondary
None	None	None	None	154	No		

Additional Info:

SECTION – 15 REGULATORY INFORMATION

TSCA

CHEMICAL NAME	Sec 8(b) Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification
Glycol Ethers	Yes			
Sodium Metasilicate Pentahydrate	Yes			

REPORTABLE QUANTITIES

CHEMICAL NAME	Extremely Hazardous: EPCRA TPQ Sec 302	Extremely Hazardous: EPCRA RQ Sec 304	Reportable Quantity: CERCLA RQ Sec 103	Emission Reporting: TRI Sec 313	RCRA Code	RMP TQ Sec 112r
Glycol Ethers				Yes		

SARA

CHEMICAL NAME	Section 311: Hazardous Chemical	Section 311 / 312 Hazards: Acute	Chronic	Flammable	Pressure	Reactive
2-(2-Butoxyethoxy)ethanol	Yes	Yes	Yes			
Nonylphenol Ethoxylate	Yes	Yes				
Sodium Metasilicate Pentahydrate	Yes	Yes				

RIGHT TO KNOW

CHEMICAL NAME	STATE: CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
2-(2-Butoxyethoxy)ethanol							Yes	Yes					
Nonylphenol Ethoxylate						Yes		Yes					
Sodium Metasilicate Pentahydrate						Yes		Yes					

CALIFORNIA WARNING! This product contains chemicals known to the state of California to cause:

CHEMICAL NAME	CAS #	Birth Defects	Reproductive Harm	Carcinogen	Developmental
None Listed					

CLEAN AIR WATER ACTS

CHEMICAL NAME	CAS #	Clean Air Acts: HAP	Ozone Class 1	Ozone Class 2	Clean Water Acts: HS	PP	TP
None Listed							

INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Glycol Ethers	Yes	Yes	Yes	Yes	Yes	Yes

WHMIS Classification

CHEMICAL NAME	DSL	Class	Description
2-(2-Butoxyethoxy)ethanol	Yes	D-2B	Materials Causing Other Toxic Effects; Toxic Material

SECTION – 16 OTHER INFORMATION

SDS	LEGEND DESCRIPTION
~	Approximately
ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service Registry
CEIL	Ceiling Limit (15 minutes)
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act
CI	Cochlear Impairment
CNS	Central Nervous System
EC50	Concentration of a chemical that gives half-maximal response
EPA	Environmental Protection Agency
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)
FBG	Full Bunker Gear
GHS	Globally Harmonized System
HAP	California Hazardous Air Pollutant Clean Air Act
HMIS-A	Safety glasses
HMIS-B	Safety glasses, gloves
HMIS-C	Safety glasses, gloves, chemical apron
HMIS-D	Face shield, gloves, chemical apron
HMIS-E	Safety glasses, gloves, dust respirator
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator
HMIS-G	Safety glasses, gloves, vapor respirator
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator
HMIS-I	Safety glasses, gloves, dust and vapor respirator
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots
HMIS-X	Ask Supervisor
HS	California Hazardous Substance under the Clean Water Act
KD	Kidney Damage (nephropathy)
*	Additional Information
LC50	A concentration that is lethal to 50% of a given species in a given time
LD50	Dose that is lethal to 50% of a given species by a given route of exposure
LEL	Lower Explosive Limit
LD	Liver Damage
NA	Not Applicable
ND	Not Determined
NE	Not Established
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit (OSHA)
PNS	Peripheral Nervous System
PP	California Priority Pollutant under the Clean Water Act
REL	Recommended exposure limit (NIOSH)
RT	Upper Respiratory Tract
Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit (15 minutes)
TC Lo	Lowest concentration that is toxic to a given species in a given time
TD Lo	Lowest dose that is toxic to a given species
TLV	Threshold Limit Value (ACGIH)
TP	California Toxic Pollutant under the Clean Water Act
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average (8 hours)
UEL	Upper Explosive Limit

Modern Chemical, Inc.

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