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

SAFETY DATA SHEET

Blue Gold Industrial Cleaner **Revision Date** 4/12/2016

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.
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

Physical Hazards None

Health Hazards EYES-Category 1; SKIN-Category 2; STOT SINGLE EXPOSURE-Category 3

Classification (EC 1272/2008) Label In Accordance with (EC) No. 1272/2008

Irritant (skin)
Respiratory Tract Irritant

Eye Damage

- - - - - - - - - - - - - - - - See "Section -16" for "Hazard and Precautionary Statements with Codes" - - - - - - - - - - - - - - - -

Danger Causes serious eye damage, Causes skin irritation, May cause respiratory irritation

May be harmful if swallowed, Do not get in eyes, on skin, or clothing, and inhalation of mist, Use personal protective equipment as required, Wash thoroughly after handling, Avoid release into the environment

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, Slight acute toxicity if swallowed

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

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 cause respiratory irritation, 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				
Nonylphenol Ethoxylate	None Established				ED
Sodium Metasilicate Pentahydrate	None Established				

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, Slight acute toxicity if swallowed

Acute Tox Calculated **Oral:** 9,977 mg/kg **Dermal:** 15,710 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 > 20 mg/L) Vapors

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 life

SECTION – 13 DISPOSAL CONSIDERATIONS

Dispose of all waste product, absorbents, and other materials in accordance with applicable Federal, State and Local Regulations.

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 Code	Marine Pollutant
None	None	None	None	154	No

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

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

SARA

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

RIGHT TO KNOW

	STATE												
CHEMICAL NAME	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

		Clean Air Acts			Clean Water Acts		
CHEMICAL NAME	CAS #	HAP	Ozone Class 1	Ozone Class 2	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
Sodium Metasilicate Pentahydrate	Yes	E	Corrosive Material

SECTION – 16 OTHER INFORMATION

Code	Hazard and Precautionary Statements
H303	May be harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash ... thoroughly after handling.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P362	Take off contaminated clothing and wash before reuse.
P376	Stop leak if safe to do so.
P370+P378	In case of fire: Use dry chemicals, CO2, alcohol foam for extinction. Water spray to cool or protect exposed materials
P402+P404	Store in a dry place. Store in a closed container.
P501	Dispose of contents/ container to an approved waste disposal plant.

SDS	LEGEND DESCRIPTION
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)
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
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NE	Not Established
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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