

SAFETY DATA SHEET

Blue Gold Industrial Cleaner

Revision Date 2/15/2024

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name Blue Gold Industrial Cleaner **Item** 109
Product Use Hard Surface Cleaner / Degreaser (360-MC)
Company Name Modern Chemical, Inc. **Office** (501) 988-1311
P.O. Box 368 **Fax** (501) 988-2229
Jacksonville AR 72078 **Web** www.bluegoldcleaners.com
EMERGENCY TELEPHONE NUMBER **INFOTRAC** **(800) 535-5053**

SECTION – 2 HAZARDS INFORMATION

Pictogram  Irritant (skin) Eye Damage
Respiratory Tract Irritant

Signal Word Danger

Hazards Health, Physical and Environmental Hazard Statements

	<u>Hazard Classification</u>	<u>Code</u>
Causes skin irritation	Category 2 Skin	H315
Causes serious eye damage	Category 1 Eyes	H318
Harmful to aquatic life	Category 3 Acute Toxicity	H402
Harmful if Swallowed		

KEEP OUT OF REACH OF CHILDREN

Handling and Storage

<u>Precautions</u>	<u>Code</u>
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)

<u>CHEMICAL NAME</u>	<u>COMMON NAME AND SYNONYMS</u>	<u>CAS #</u>	<u>IMPURITIES</u>	<u>PERCENT</u>
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

<u>FLAMMABLE LIQUIDS HAZARD CLASSIFICATION</u>	
Criteria	Flash point > 93.3°C (200°F)
NFPA	Class III B
GHS	Not applicable
WHMIS	Not applicable

<u>NFPA HAZARD RATINGS</u>	
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

<u>EXPOSURE LIMITS</u>					Significant Exposure
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	
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 mg/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 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**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:

<u>CHEMICAL NAME</u>	<u>NTP</u>	<u>ACGIH</u>	<u>IARC</u>	<u>GHS Category</u>
None Listed	NA	NA	NA	NA

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

<u>CHEMICAL NAME</u>	<u>Germ Cell Mutagenicity</u>	<u>Toxic to Reproduction</u>
None Listed	NA	NA

COMPONENTS ACUTE TOXICITY

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Form</u>	<u>Subject</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
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)
Persistence 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			Reportable Quantity			Emission Reporting						
	EPCRA TPQ Sec 302	EPCRA RQ Sec 304	CERCLA RQ Sec 103	TRI Sec 313	RCRA Code	RMP TQ Sec 112							
Glycol Ethers				Yes									
SARA													
CHEMICAL NAME	Section 311			Section 311 / 312 Hazards									
	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													
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													
CHEMICAL NAME	WARNING! This product contains chemicals known to the state of California to cause:												
	CAS #	Birth Defects			Reproductive Harm			Carcinogen			Developmental		
None Listed													
CLEAN AIR WATER ACTS													
CHEMICAL NAME	CAS #	Clean Air Acts				Clean Water Acts							
		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											

SECTION – 16 OTHER INFORMATION**SDS LEGEND DESCRIPTION**

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

Modern Chemical, Inc.

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Supersedes Safety Data Sheet Dated

1/25/2024