



SAFETY DATA SHEET

Blue Gold Industrial Cleaner

Revision Date

12/8/2014

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	Blue Gold Industrial Cleaner	PRODUCT USE	Hard Surface Cleaner / Degreaser	ITEM	109 (360-MC)
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



Irritant (skin)
Respiratory Tract Irritant



Eye Damage

DANGER! Causes serious eye damage, Causes skin irritation, Harmful if swallowed, May cause respiratory irritation, Do not get in eyes, on skin, or clothing, and avoid inhalation of, spray mist, Use personal protective equipment as required, Wash thoroughly after handling, Avoid release into the environment, For industrial use only

EYES-Category 1, SKIN-Category 2, STOT SINGLE EXPOSURE-Category 3

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	Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-	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	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	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

<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
Personal Protection	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 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
Sodium Metasilicate Pentahydrate				2 mg/m3	
2-(2-Butoxyethoxy)ethanol	10 ppm				Mist
Nonylphenol Ethoxylate	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 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 / Relative Density	1.08
Flammable Limits	ND	Molecular Weight	ND
Auto-Ignition Temp.	ND	Initial Boiling Point	ND
Physical State	Liquid	Boiling Range	ND
Appearance	Clear Blue	Vapor Pressure	ND
Odor	Peppermint	Vapor Density	ND
Odor Threshold	ND	Freeze Point	ND
Solubility	100%	Melting Point	ND
Volatiles	ND	Partition Coefficient	ND
VOC	0.5% at 5% dilution / 5 gm/L VOC in 5% dilution	Decomposition Temperature	ND
pH	13.0	Evaporation Rate	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	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	Harmful if swallowed, Causes irritation, burning in the mouth, throat, and esophagus, Slight acute toxicity if swallowed
Acute Tox Calculated	Oral: 11,356 mg/kg Dermal: 6,522 mg/kg Inhaled: 57 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				

MUTAGENIC AND TERATOGENIC EFFECTS – May cause fetal and reproductive abnormalities.

CHEMICAL NAME	Mutagenic	Teratogenic	Developmental	GHS Category
None Listed				

SECTION – 11 TOXICOLOGICAL INFORMATION - CONTINUED

<u>ACUTE TOXICITY</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 (>1.0, ≤5 mg/L)
	LD50	Dermal	Rabbit	2000 mg/kg		(>2000 mg/kg)
Sodium Metasilicate Pentahydrate	LD50	Oral	Rat	847 mg/kg		4 (>300, ≤2000 mg/kg)
Glycol Ether DB	LD50	Oral	Rat	7291 mg/kg		(>2000 mg/kg)
	LD50	Dermal	Rabbit	2764 mg/kg		(>2000 mg/kg)

SECTION – 12 ECOLOGICAL INFORMATION

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Subject</u>	<u>Subject Latin</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Nonylphenol Ethoxylate	LD50	Fathead Minnow	(Pimephales promelas)	3.8 mg/L	96 Hours	2 (>1, ≤10 mg/L)
	EC50	Water Flea	(Daphnia magna)	9.3 mg/L	48 Hour	2 (>1, ≤10 mg/L)
2-(2-Butoxyethoxy)ethanol	LC50	Fish	(Leuciscus Idus)	1300 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 life

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.

The transportation, storage, treatment and disposal of RCRA waster material must be conducted in compliance with 40 CFR 262, 263, 264 and 270. Disposal can only occur in properly permitted facilities.

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**D.O.T. CLASSIFICATION**

<u>UN Number</u>	<u>Proper Shipping Name</u>		<u>Hazard Class</u>	<u>Packing Group</u>	<u>Label Codes</u>	<u>Reportable Quantity (lbs)</u>	<u>Response Code</u>	<u>Marine Pollutant</u>
Not Regulated	Non Hazardous – Compounds Cleaning Liquid		None	PG III	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
Sodium Metasilicate Pentahydrate	Yes			
Glycol Ethers	Yes			

REPORTABLE QUANTITIES

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

SARA

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

RIGHT TO KNOW

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

DSCL (EEC)

Code	Definition (R-Phrases / S-Phrases)
R22	Harmful if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
R41	Risk of serious damage to eyes
S2	Keep out of the reach of children
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S61	Avoid release to the environment
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible
S24/25	Avoid contact with skin and eyes
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection

SECTION – 16 OTHER INFORMATION

SDS	Legend Description		
ACGIH	American Conference of Governmental Industrial Hygienists	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CAS	Chemical Abstracts Service Registry	LEL	Lower Explosive Limit
CEIL	Ceiling Limit (15 minutes)	NA	Not Applicable
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	ND	Not Determined
EPA	Environmental Protection Agency	NE	Not Established
FBG	Full Bunker Gear	NFPA	National Fire Protection Association
HAP	California Hazardous air pollutant Clean Air Act	NIOSH	National Institute for Occupational Safety and Health
HMIS-A	Safety Glasses	NTP	National Toxicology Program
HMIS-B	Safety glasses, gloves	OSHA	Occupational Safety and Health Administration
HMIS-C	Safety glasses, gloves, chemical apron	PEL	Permissible Exposure Limit (OSHA)
HMIS-D	Face shield, gloves, chemical apron	PP	California Priority Pollutant under the Clean Water Act
HMIS-E	Safety glasses, gloves, dust respirator	REL	Recommended exposure limit (NIOSH)
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	Air concentration that is lethal to 50% of 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)
IARC	International Agency for Research on Cancer	UEL	Upper Explosive Limit
LC50	Air concentration that is lethal to 50% of a given species in a given time	WHMIS	Worker Hazardous Materials Information System (Canada)

Modern Chemical, Inc.

and nCites, L.L.C. have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever from any and all injuries, losses, or damages to persons or property arising from the use of this product or information.

Supersedes Safety Data Sheet Dated 8/12/2013