

PRODUCT USE

SAFETY DATA SHEET

Clean Break Revision Date 12/19/2015

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Clean Break ITEM 001605

001615

COMPANY NAME Magnus Office (855) 962-4687

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SECTION – 2 HAZARDS INFORMATION

Physical Hazards CORROSIVE TO METALS-Category 1

Alkali Laundry Booster

Health Hazards EYES-Category 1; SKIN-Category 1B; ACUTE TOXICITY-Category 4 (Oral)

Environmental CHRONIC-Aquatic Toxicity-Category 4





Danger May be corrosive to metals

Causes severe skin burns and eye damage, Harmful if swallowed

Do not get in eyes, on skin, or clothing, and avoid inhalation of mist, Do not smoke, eat or drink while using, Use proper Safety Equipment, safety glasses, or goggles, rubber gloves, and protective clothing, Wash thoroughly after handling,

Avoid release into the environment

SECTION – 3 COMPO	SITION INFORMATION	(Exact percentage of the listed chemicals of composition has been withheld as a trade secre					
CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS#	<u>IMPURITIES</u>	PERCENT			
Sodium Hydroxide	Caustic Soda	1310-73-2	Water 50%	5 - 15%			
Potassium Hydroxide	KOH, Caustic Potash	1310-58-3	Water < 65%	5 - 15%			

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, Obtain immediate medical attention,

preferably from an ophthalmologist or Emergency Room

SKIN CONTACT Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Remove

contaminated shoes or clothing and wash before reuse, If irritation occurs or persists 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 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 applicable

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Causes serious eye irritation, redness, burning sensation, pain, corrosive burns, or possible eye damage

Skin Causes serious skin irritation, itching, redness, burning, or possible corrosive burns

Inhalation Spray mist may cause mild irritation, to respiratory tract

Ingestion Harmful if swallowed, May cause corrosive burns, of the mouth, throat, esophagus, and gastrointestinal tract

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, severe pain, severe corrosive burns, corneal injury, lesions, partial or complete blindness

Skin Causes serious skin damage, inflammation, burning, deep ulcerations, or corrosive burns

Inhalation Spray mist may cause irritation, to mucus membranes or respiratory tract

Ingestion Harmful if swallowed, Causes corrosive burns, of the mouth, throat, esophagus, stomach, and gastrointestinal tract,

Symptoms may include, nausea, vomiting, abdominal pain, bleeding

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media Not flammable: Use extinguishing media for surrounding fire

Hazardous Decomposition Burning or thermal decomposition can produce, sodium oxides, potassium oxides, and other toxic fumes

Reactive With Reactive with, metals, flammable liquids, organic halogens, acids, nitro compounds, magnesium, zinc, aluminum

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, Stop spill or release only if it can be done safely

Personal Precautions Avoid slipping on spilled product, Keep unprotected personnel from entering the hazard area

Protective Equipment Safety Glasses, Gloves, Chemical Apron and Rubber Boots

Containment Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the

environment

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, place in a chemical waste container, mop area with clean water

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, Do not smoke, eat or drink while

using, Wash thoroughly after handling, Avoid release to the environment, Triple rinse container before

discarding

Storage KEEP OUT OF REACH OF CHILDREN, Keep container closed when not in use, Store in a cool dry place away

from incompatible materials, Keep from freezing

Incompatible Materials Incompatible with, metals, flammable liquids, organic halogens, acids, nitro compounds, magnesium, zinc,

aluminum

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS					Significant
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	Exposure
Sodium Hydroxide	2 mg/m³		2 mg/m³	2 mg/m ³	EI,SI
Potassium Hydroxide	2 mg/m³		2 mg/m³		EI,SI

PERSONAL PROTECTIVE EQUIPMENT



Disposal

Chemical Safety Glasses, Goggles or Face Shield



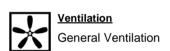
Impervious Chemical Gloves



Impervious
Protective Clothing



Eye Wash (Recommended)





Health 3
Flammability 0
Reactivity 1
Personal Protection C

SECTION - 9	PHYSICAL AND CHEMICAL PROPERTIES	

Flash Point	> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	1.132
Flammable Limits	ND	pH (± 0.3)	13.0
Auto-Ignition Temp.	ND	Viscosity	ND
Physical State	Liquid	Freeze Point	~ 0°C (32°F)
Appearance	Clear	Boiling Point	~ 100°C (212°F)
Odor	Soap	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mm Hg)	ND
Solubility	100%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 88%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	~ 26.12
LVP-VOC	0%	Decomposition Temperature	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity (Specific Test Data) No specific test data related to reactivity available for this product or its ingredients

Chemical Stability Stable when stored above 4.4°C (40°F) and below 49°C (120°F)

Hazardous Polymerization Will not occur

Conditions To Avoid Incompatible materials

Incompatible Materials Incompatible with, metals, flammable liquids, organic halogens, acids, nitro compounds, magnesium, zinc,

aluminum

Thermal Decomposition Burning or thermal decomposition can produce, sodium oxides, potassium oxides

SECTION – 11 TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE

Eyes (Yes), Skin (Yes), Inhalation (Yes "Mist"), Ingestion (Yes)

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

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Ingestion Harmful if swallowed, May cause corrosive burns, of the mouth, throat, esophagus, and gastrointestinal tract

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, severe pain, severe corrosive burns, corneal injury, lesions, partial or complete blindness

Skin Causes serious skin damage, inflammation, burning, deep ulcerations, or corrosive burns

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Ingestion Harmful if swallowed, Causes corrosive burns, of the mouth, throat, esophagus, stomach, and gastrointestinal tract,

Symptoms may include, nausea, vomiting, abdominal pain, bleeding

Acute Tox Calculated Oral: 1,493 mg/kg Dermal: 8,203 mg/kg Inhaled: > 12.5 mg/L

Acute Tox Category 4 (Oral >300, ≤2000 mg/kg), Not applicable (Dermal > 5000 mg/kg), Not applicable (Inhaled >12.5 mg/L) Dust or Mist

Additional Info

Target Organs Mucous Membranes, Eyes (Lens or cornea), Skin

Medical Conditions Preexisting, eye, skin, respiratory, 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 NAMENTPACGIHIARCGHS Category

None Listed NA 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	<u>Type</u>	<u>Form</u>	<u>Subject</u>	Result Value	Exposure Time	GHS Category
Potassium Hydroxide	LD50	Oral	Rat	410 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	> 2520 mg/kg		(>2000 mg/kg)
Sodium Hydroxide	LD50	Oral	Rabbit	400 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	> 2,000 mg/kg		(>2000 mg/kg)

SECTION - 12 ECOLOGICA	LINFORMATI	UN			
CHEMICAL NAME	<u>Type</u>	Subject Subject Latin	Result Value	Exposure Time	GHS Category
Potassium Hydroxide	LC50	Mosquito Fish (Gambusia affinis)	80 mg/L	24 Hours	3 (>10, ≤100 mg/L)
Sodium Hydroxide	LC50	Bluegill (Lepomis macrochirus)	99 mg/L	48 Hours	3 (>10, ≤100 mg/L)
	LC50	Brown shrimp (Crangon crangon)	30 mg/L	48 Hours	3 (>10, ≤100 mg/L)
	LC50	Mosquito Fish (Gambusia affinis)	125 mg/L	96 Hours	4 (>100 mg/L)

Presistence And Degradability There is no degradation of potassium or sodium hydroxide in waters, only loss by absorption or through

chemical neutralization

Bioaccumulative Potential There is no evidence to suggest bioaccumulation will occur

Mobility In Soil This material is a partially mobile liquid

Other Adverse Effects May cause long lasting harmful effects 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

Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste.

CONTAINER DISPOSAL - Triple rinse empty container then offer for recycling. If not available, puncture and dispose in a sanitary landfill.

SECTION - 14 TRANSPORT INFORMATION

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DOT CLASSIFICATION

Proper Shipping Name n.o.s. (Chemicals) or "Limits" **UN Number**

Corrosive Liquid

UN 1760 CORROSIVE LIQUIDS, n.o.s. (Potassium Hydroxide, Sodium Hydroxide)

Hazard Class Packing Group **Label Codes** Reportable Quantity (lbs) Response Marine Pollutant Hazard Label Secondary Hydroxides (1000)

154

No

8 **Additional Info:**

TSCA													
CHEMICAL NAME	Sec 8(b)	Inventory	S	ec 8(d) H	lealth A	nd Safety	Se	c 4(a) Che	mical Test F	Rules	Sec 12(b) Expo	rt Notification
Sodium Hydroxide	Y	'es											
Potassium Hydroxide	Υ	'es			Yes								
REPORTABLE QUANTITIES		Extremely	Hazardou	s		Reportable	Quantity	Emissio	n Reporting				
CHEMICAL NAME	EPCRA TE	Q Sec 302	EPCRA	RQ Sec	304	CERCLA RO	Sec 103	TRI	Sec 313	RC	RA Code	RMI	P TQ Sec 112
Potassium Hydroxide						100	0						
Sodium Hydroxide						100	0						
<u>SARA</u>	S	ection 31	1				Section	on 311/3	312 Hazaro	ls			
CHEMICAL NAME	Hazar	dous Che	emical		Acute		Chronic	FI	ammable	ı	Pressure		Reactive
Sodium Hydroxide		Yes			Yes								
Potassium Hydroxide		Yes			Yes		Yes						
RIGHT TO KNOW						STATE							
CHEMICAL NAME	CA	СТ	FL	IL	LA	NJ.	NY	PA	MI	MN	MA	RI	WI
Sodium Hydroxide						Yes		Yes			Yes		
Potassium Hydroxide	Yes		Yes			Yes	Yes	Yes		Yes	Yes		
CALIFORNIA			WARNI	NG! Thi	is prod	duct conta	ins chem	icals kno	own to the	state	of Californ	ia to d	cause:
CHEMICAL NAME	CAS#		Birth D	efects		Reprodu	ctive Har	m	Carcino	gen	D	evelo	pmental
None Listed													
CLEAN AIR WATER ACTS			Clean	Air Act	ts				C	lean W	ater Acts		
CHEMICAL NAME	CAS#		HAP		Ozor	ne Class 1	Ozor	e Class	2 H	IS	PP		TP
None Listed													
INTERNATIONAL REGULATIONS	- The compo	onents of	this prod	uct are l	listed o	on the chen	nical inver	ntories of	the followi	ng cour	ntries:		
CHEMICAL NAME	Aust	ralia	Ca	nada	Е	urope (EIN	IECS)	Japa	ın	Ko	orea		UK
Sodium Hydroxide	Υe	es .	`	⁄es		Yes		Yes	5	Y	'es		Yes
WHMIS Classification													
CHEMICAL NAME		DSL	Class	Desci	ription	1							
Potassium Hydroxide, Sodium H	lydroxide	Yes	Е	Corro	sive I	Material							
			D-1B	Mate	rials C	Causing Im	nmediate	and Se	rious Tox	ic Effe	cts; Toxic	Mate	rial
			D-2B	Mate	rials C	Causing O	ther Toxi	ic Effect	s; Toxic M	1ateria			

SECTION – 16 OTHER INFORMATION

5	<u>SDS</u>	LEGEND DESCRIPTION		
1	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
E	EC50	Concentration of a chemical that gives half-maximal response	NFPA	National Fire Protection Association
E	EΡΑ	Environmental Protection Agency	NIOSH	National Institute for Occupational Safety and Health
E	≣ye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NE	Not Established
F	BG	Full Bunker Gear	NTP	National Toxicology Program
(GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
H	HAP	California Hazardous air pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
H	HMIS-A	Safety Glasses	PNS	Peripheral Nervous System
H	HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
H	HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
H	HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
H	HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
H	HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
H	HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
H	H-SIMI	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
H	HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
H	HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
H	HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
H	HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
H	HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours)
ŀ	K D	Kidney Damage (nephropathy)	UEL	Upper Explosive Limit

Magnus

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