SAFETY DATA SHEET

AMERICAN INDUSTRIES, INC.®
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SECTION 1: IDENTIFICATION

COMPANY NAME:	AMERICAN INDUSTRIES, INC.	**PRODUCT NAME:**	**BRUTE FORCE**
ADDRESS LINE 1:	4300 Kahn Drive, Box 1405	**PRODUCT CODE:**	2020
ADDRESS LINE 2:	Lumberton, NC 28359-1405 USA	**PRODUCT USE:**	All purpose cleaner/degreaser
TELEPHONE NUMBERS:	800-753-5153 (or) 910-738-7224	**SDS FILE ID:**	2020.11
EMERGENCY PHONE:	**CHEMTREC 1-800-424-9300**	**SDS DATE:**	2015-12-16

REPLACES MSDS VERSION DATED: 2015-06-01 *and all prior revisions*

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

Health	Acute toxicity	5 Oral
	Skin corrosion/irritation	2
	Serious eye damage/Eye irritation	2 B
Physical	Corrosive to metals	1

Label elements

Signal word: WARNING

Hazard statements:
H303 May be harmful if swallowed.
H315 Causes skin irritation.
H320 Causes eye irritation.
H290 May be corrosive to metals

Precautionary statements:

P305 IF IN EYES: Flush eyes with plenty of water. If redness persists, seek medical attention.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with soap and water.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS number	%
Sodium Hydroxide	1310-73-2	<5
2-Butoxyethanol	111-76-2	<15

SECTION 4: FIRST AID MEASURES

Inhalation	If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
Skin contact	Promptly flush skin with water until all chemical is removed.
Eye contact	Flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Contact a physician if redness persists
Ingestion	Give 1-2 glasses of water. Do not induce vomiting. Get medical advice. Do not give anything by mouth to an unconscious or convulsing person.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point	>180°F (>82°C)
Flash Point Method	N/A
Extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Not applicable
Hazardous combustion products	Not applicable
Special exposure hazards	None

Special protective equipment	Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate protective equipment. (See Section 8.) Do not get into eyes, skin, or clothing. Wear respiratory protection. Avoid breathing vapors. Ensure adequate ventilation.
Environmental Precautionary Measures: Do not empty into drains.
Methods and Materials for Containment and Cleanup: Soak up residue with an absorbent such as clay or sand. Place in a nonleaking container for proper disposal according to Federal, State, and Local regulations. Do not discharge into waterways or sewage systems.

SECTION 7: HANDLING AND STORAGE

Handling	Use in a well-ventilated area. Do not breathe vapors. Do not get on skin, eyes, or clothing.
Storage	Keep from freezing. Store between 50 and 80 degrees F. Keep container closed and in a well-ventilated area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Use in well ventilated area.	
Personal Protective Equipment: Safety Glasses, Gloves, Apron		
Sodium hydroxide	1310-73-2	<5%
Components with workplace control parameters		
Ceiling Value	2mg/m3	USA ACGIH Threshold Limit Values (TLV)
Ceiling Value	2mg/m3	USA (OSHA)-Table Z-1 Limits for air contaminants-1910.1000
TWA	2mg/m3	USA Occupational exposure limits (OSHA)-Table Z-1 Limits for air contaminants
Ceiling Value	2 mg/m3	USA ACGIH Threshold Limit Values (TLV)
Eye, skin, & upper respiratory tract irritation		
Ceiling Value	2 mg/m3	USA NIOSH Recommended exposure limits
2-Butoxyethanol	111-76-2	<15%
Components with workplace control parameters		
TWA	20 ppm	USA ACGIH Threshold Limit Values (TLV)
Eye & upper respiratory tract irritation	Confirmed animal carcinogen with unknown relevance to humans	
TWA	5 ppm 24 mg/m3	USA NIOSH Recommended Exposure Limits- Potential for dermal absorption
TWA	50 ppm 240 mg/m3	USA Occupational exposure limits (OSHA)-Table Z-1 Limits for air contaminants
Skin designation	The value in mg/m3 is approximate	
TWA	25 ppm 120 mg/m3	USA OSHA-Table Z-1 limits for air contaminants-1910.1000
Skin notation		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color	Green liquid
Physical State	Liquid
Odor	Honey/Almond
Flash point	>180^{o}F (>82^{o}C)
Flammability	Not available
Partition Coefficient	Not available
Boiling point	212^{o}F (100^{o}C)
Melting point/freezing point	Not available
Auto-ignition temperature	Not available

Vapor pressure	Not available
Vapor density (Air-1)	Not available
Specific gravity/Density	1.05
Viscosity	Not available
Water solubility	Soluble in water
pH	>12
Evaporation rate (Water=1)	1
Decomp Temp	Not available

SECTION 10: STABILITY AND REACTIVITY

Chemical stability	Stable
Conditions to avoid	Open flame and heat; freezing
Materials to avoid	Strong oxidizing agents
Hazardous decomposition	Carbon dioxide, carbon monoxide
Hazardous polymerization	Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Sopdium hydroxide	1310-73-2	<5%

Information on toxicological effects

Acute toxicity	No data available	
Inhalation	No data available	
Dermal	No data available	
Skin corrosion/irritation	Skin-rabbit	Result-Causes severe burns – 24h
Serious eye damage/eye irritation	Eyes-rabbit	Result-Corrosive – 24 h
Respiratory or skin sensitization	Will not occur	
Germ cell mutagenicity	No data available	

Carcinogenicty

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available.
Specific target organ toxicity	Single Exposure-No data available Repeated Exposure-No data available
Aspiration hazard	No data available
Additional information	RTECS: WB4900000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

2-Butoxyethanol	111-76-2	<15%

Information on toxicological effects

Acute toxicity		
LD50	Oral-rat	470 mg/kg
LC50	Inhalation-rat	4 h-450 ppm Remarks: Behavioral:Ataxia.

		Nutritional and Gross Metabolic:Weight loss or decreased weight gain.
LD50	Dermal-rabbit	220 mg/kg
LD50	Intraperitoneal-rat	220 mg/kg
LD50	Intravenous-rat	307 mg/kg
Skin corrosion/irritation	Skin-rabbit	Result-Open irritation test
Serious eye damage/eye irritation	Eyes-rabbit	Result-Moderate eye irritation-24 h
Respiratory or skin sensitization	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicty		
IARC 3-Group 3	Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol)	
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.	
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
Reproductive toxicity	No data available	

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity	Single Exposure-No data available	Repeated Exposure-No data available
Aspiration hazard	No data available	
Additional information	RTECS: KJ8575000	

Human exposure above 200 ppm can be expected to cause narcosis, damage to the kidney and liver and present an abnormal blood picture showing erythropenia, reticulocytosis, granulocytosis, leukocytosis, and would be likely to cause fragility of erythrocytes and hematuria. Swallowing of 2-butoxyethanol results in a sour taste that turns to a burning sensation and is followed by numbness of the tongue which indicates paralysis of the sensory nerve endings., Central nervous system depression, Headache, narcosis

Stomach	Irregularities	Based on human evidence

SECTION 12: ECOLOGICAL INFORMATION

Sodium hydroxide	1310-73-2	<5%
Information on ecological effects		
Toxicity to fish LC50	Gambusia affinis (Mosquito fish)	125 mg/l-96 h
LC50	Oncorhynchus mykiss (rainbow trout)	45.4 mg/l-96 h
Toxicity to daphnia and Immobilization EC50	Daphnia	40.38 mg/l-48 h
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.	
Bio-accumulative potential	No data available	
Mobility in soil	No data available	

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.	
2-Butoxyethanol	111-76-2	1-5%
Information on ecological effects		
Toxicity to fish LC5O	Other fish	220 mg/l-96 h
Toxicity to daphnia and EC50	Daphnia magna (Water flea)	1,815 mg/l-24 h
Persistence and degradability	No data available	

Ratio BOD/ThBOD	88%
Bio-accumulative potential	No data available
Mobility in soil	No data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not Conducted.

Other adverse effects	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Empty Containers: If empty container retains product residue, all label precautions must be observed. Dispose of unused product prior to disposing of empty container.
Disposal Considerations of Substance: Do not discharge into waterways or sewage systems. Transport with all closures in place. Return for reuse or dispose of according to national, local, and state regulations

SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION FOR QUANTITIES GREATER THAN 5 LITERS PER CONTAINER.	UN 1760, Corrosive liquids,n.o.s., 8, PGIII (Sodium Hydroxide, Ethylene glycol monobutyl ether, Sodium Metasilicate, EDTA) n.o.s., PG III
DOT INFORMATION FOR QUANTITIES LESS THAN 5.0 LITERS PER JUG:	Corrosive liquids,n.o.s, Limited Quantity
Marine Pollutant	No

SECTION 15: REGULATORY INFORMATION

COMPONENT	(CAS/PERC)		CODES
RQ (1000 LBS), Sodium hydroxide	1310-73-2	<5%	CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR
2-Butoxyethanol	11176-2 10	<15%	HAP, MASS, OSHAWAC, PA, TSCA, TXAIR

REGULATORY CODE DESCRIPTIONS
RQ=Reportable Quantity
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level
HAP = Hazardous Air Pollutants

SECTION 16: OTHER INFORMATION

Hazardous Materials Identification System (HMIS)

HMIS® RATING:	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	1

Important Note: *To be the best of our knowledge, the information contained herein is accurate. However there is no assumption of liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer/supplier, the manufacturer/supplier will not be responsible for loss, injury, or expense arising out of the products improper use. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.*
End of SDS