

SAFETY DATA SHEET

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:	2020.12
EMERGENCY PHONE:	CHEMTREC 1-800-424-9300	SDS DATE:	2023-08-11
		REPLACES MSDS VERSION DATED: 2015-12-16 and all prior revisions	

SECTION 2: HAZARDS IDENTIFICATION

Health hazards	Acute toxicity, inhalation	4
	Skin corrosion/irritation	1
	Serious eye damage/Eye irritation	1
	Specific target organ toxicity, repeated exposure	1
	Physical hazards	Flammable liquids
Label elements		



Signal word	DANGER
Hazard statements	Combustible liquid. Causes severe skin burns and eye damage. Causes serious eye damage. Fatal if inhaled. Causes damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	Keep away from flames and hot surfaces-No smoking. Do not breathe vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Wear respiratory protection.
Response	If swallowed: Rinse mouth. Do not induce vomiting. If on skin or hair: Remove all contaminated clothing immediately. Rinse skin/hair with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment is urgent (see label). Wash contaminated clothing before reuse. In case of fire: use appropriate media to extinguish.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>CAS number</u>	<u>%</u>
Ethanol, 2-Butoxy	111-76-2	10
Benzenesulfonic Acid, Dimethyl-, Sodium Salt (1:1)	1300-72-7	2.6
Silicic Acid (H ₂ SiO ₃), Sodium Salt (1:2)	6834-92-0	1.725
Sodium Hydroxide (NA(OH))	1310-73-2	1.56
Glycine, N, N'-1,2-Ethanediylobis-(Carboxymethyl)-, Sodium Salt (1:4)	64-02-8	1.54
Poly(Oxy-1,2-Ethanediy), Alpha-Hydro-Omega-Hydroxy-	25322-68-3	0.06
Other components below reportable levels		82.515

SECTION 4: FIRST AID MEASURES

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
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Skin contact	Immediately remove all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately
Ingestion	Call a physician or poison control immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could occur. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media	Water fog, alcohol resistant foam, dry chemical powder, carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher as this will spread the fire.
Specific hazards arising from the chemical	This product is combustible; heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion, do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other materials involved.
General fire hazards	Combustible liquid.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures	Keep unnecessary personnel away. Keep away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area.) Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and clean up	Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area.) Keep combustibles (wood, paper, oil, etc) away from spilled materials. Prevent entry into waterways, sewer, basements, or confined areas. Large Spills: Stop the flow of material, if safe to do. Dike the spilled material where possible. Use a non-combustible material like vermiculite, sand, or earth to soak up the product and place into a container for later disposal. Following product recover, flush area with water. Small Spills: Absorb with earth, sand, or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material such as cloth or fleece. Clean surface thoroughly to remove residual contamination. Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.)
Environmental precautions	Avoid discharge into drains, water courses, or onto the ground.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Keep away from open flames, hot surfaces, and ignition sources. Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. When using, do not eat, drink, or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
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Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks, and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see section 10 of the SDS.)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Ethanol, 2-Butoxy- (CAS 111-76-2)	PEL	240 mg/m3 50 ppm	
Sodium Hydroxide (NA(OH)) (CAS 1310-73-2)	PEL	2 mg/m3	

US. ACGIH Threshold Limit Values

Ethanol, 2-Butoxy- (CAS 111-76-2)	TWA	20 ppm	
Sodium Hydroxide (NA(OH)) (CAS 1310-73-2)	Ceiling	2 mg/m3	

US. NIOSH: Pocket Guide to Chemical Hazards

Ethanol, 2-Butoxy- (CAS 111-76-2)	TWA	24 mg/m3 5 ppm	
Sodium Hydroxide (NA(OH)) (CAS 1310-73-2)	Ceiling	2 mg/m3	

US. Workplace Environmental Exposure Level (WEEL) Guides

Poly (oxy-1, 2-Ethanediyyl) Alpha-Hydro-Omega- Hydroxy- (CAS 25322-68-3)	TWA	10 mg/m3	Particulate
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Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen
Ethanol, 2-Butoxy- (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA) with hydrolysis	Creatinine in urine

Exposure guidelines

US – California OELs: Skin designation

Ethanol, 2-Butoxy- (CAS 111-76-2) Can be absorbed through the skin.

US – Minnesota Haz Subs: Skin designation applies

Ethanol, 2-Butoxy- (CAS 111-76-2) Skin designation applies.

US – Tennessee OELs: Skin Designation

Ethanol, 2-Butoxy- (CAS 111-76-2) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin Designation

Ethanol, 2-Butoxy- (CAS 111-76-2) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Ethanol, 2-Butoxy- (CAS 111-76-2) Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

The following are recommendations for Personnel Protective Equipment (PPE.) The employer/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

Eye/face protection	Chemical respirator with organic vapor cartridge and full facepiece
Skin protection	Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using, do not smoke. Always observe good personal hygiene measures, such as washing after handling the materials and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color	Green liquid
Physical State	Liquid
Odor	Honey/Almond
Flash point	180°F (82°C)
Flammability	Not available
Partition Coefficient	Not available
Boiling point	265°F (129°C)
Melting point/freezing point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Viscosity	Not available
Partition coefficient (n-octano/water)	Not available
Water solubility	Not available
pH	>12
Evaporation rate	Not available
Decomp Temp	Not available
Density	9.70 lbs/gal; 1.16 g/ml
Explosive properties	Not explosive
Flammability class	Combustible IIIA estimated
Oxidizing properties	Not oxidizing
Percent volatile	89.16% estimated
Specific gravity	1.16
VOC	10.06% estimated

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable and non-reactive under normal conditions of use, storage, and transport.
Chemical stability	Stable under normal conditions
Conditions to avoid	Avoid heat, sparks, open flames, and other ignition sources. Avoid temperatures exceeding the flash point. Avoid contact with incompatible materials.
Materials to avoid	Strong oxidizing agents
Hazardous decomposition	No hazardous decomposition products are known.
Hazardous polymerization	Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Fatal if inhaled.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.

Symptoms related to the physical, chemical, and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could occur.

Information on toxicological effects

Acute toxicity Fatal if inhaled

Components	Species	Test Results
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Ethanol, 2-Butoxy- (CAS 111-76-2)

Acute

Dermal

LD50	Rabbit	400 mg/kg
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Oral

LD50	Rat	560 mg/kg
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Glycine, N,N'-1, 2-Ethanediybis [N-(Carboxymethyl)-, Sodium Salt (1:4) (CAS 64-02-8)

Acute

Oral

LD50	Rat	>2000 mg/kg
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Silicic Acid (H₂SiO₃), Sodium Salt (1:2) (CAS 6834-92-0)

Acute

Oral

LD50	Rat	1280 mg/kg
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Skin corrosion/irritation Causes severe skin burns and eye damage.

Respiratory or skin sensitization

Respiratory sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Carcinogenicity Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethanol, 2-Butoxy- (CAS 111-76-2)	3 Not classifiable as to carcinogenicity to humans.
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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)	Not listed
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US. National Toxicology Program (NTP) Report on Carcinogens	Not listed
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Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity – single exposure Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity – repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Chronic effects Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
Components	Species	Test Results	
Ethanol, 2-Butoxy- (CAS 111-76-2)			
Aquatic			
Fish	LC50	Inland silverside (<i>Menidia beryllina</i>)	1250 mg/l, 96 hours
Glycine, N,N'-1, 2-Ethanediybis [N-(Carboxymethyl)-, Sodium Salt (1:4) (CAS 64-02-8)			
Aquatic			
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	472-500 mg/l, 96 hours
Poly(Oxy-1, 2-Ethanediy), Alpha-Hydro-Omega-Hydroxy- (CAS 25322-68-3)			
Aquatic			
Crustacea	EC50	Water flea (<i>Ceriodaphnia dubia</i>)	34.59-47.13 mg/l, 48 Hours
Fish	LC50	Western mosquitofish (<i>Gambusia affinis</i>)	125 mg/l, 96 Hours
Sodium Hydroxide (NA(OH)) (CAS 1310-73-2)			
Aquatic			
Fish	LC50	Atlantic salmon (<i>Salmo salar</i>)	>1000 mg/l, 96 hours
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.		
Bioaccumulative potential			
Partition coefficient n-octanol/water (log Know)			
Ethanol, 2-Butoxy-		0.83	
Mobility in soil	No data available		
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.		

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Dispose of contents/container in accordance with local/regional/national regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations
Hazardous waste code	D002: Waste corrosive material [pH <=2 or =>12.5, or corrosive to steel] The waste code should be assigned in discussion between the user, the producer, and the waste disposal company.
Waste from residues/unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Emptied containers may retain product residue; follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

DOT	
UN number	UN1760
UN proper shipping name	CORROSIVE LIQUIDS, N.O.S. (SODIUM HYDROXIDE, DISODIUM TRIOXOSILICATE)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling.
ERG number	154
Transportation information on packaging may be different from that listed.	

IATA

UN number	UN1760
UN proper shipping name	CORROSIVE LIQUIDS, N.O.S. (SODIUM HYDROXIDE, DISODIUM TRIOXOSILICATE)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG number	154
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling.

IMDG

UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLY(OXY-1,2-ETHANEDIYL), ALPHA -(4-NONYLPHENYL)-OMEGA-HYDROXY-BRANCHED), MARINE POLLUTANT
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling.

DOT



IATA



IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant

SECTION 15: REGULATORY INFORMATION

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Suptp. D) Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2) Listed.

SARA 304 Emergency release notification Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance Not listed.

SARA 311/312 Hazardous chemical Yes

Classified hazard categories
Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by weight
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ETHANOL, 2-BUTOXY-	111-76-2	10
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Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated

Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

State Regulations **California Proposition 65:** This product is not known to contain any chemicals currently listed as carcinogens of reproductive toxins.

US California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3) subd. (a))

ETHANOL, 2-BUTOXY- (CAS 111-76-2)

SODIUM HYDROXIDE (NA(OH)) (CASE 1310-73-2)

International Inventories

County or region	Inventory name	On inventory (yes/no)*
Canada	Domestics Substances List (DSL)	Yes
Canada	Non- Domestics Substances List (NDSL)	No
US & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing county(s)

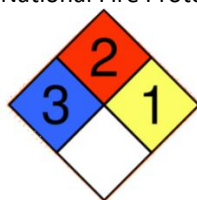
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: OTHER INFORMATION

Hazardous Materials Identification System (HMIS)

HMIS-RATING:	
HEALTH	3
FLAMMABILITY	2
PHYSICAL HAZARD	0

National Fire Protection Association System (NFPA)



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