

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

COMPANY NAME:	AMERICAN INDUSTRIES, INC.	PRODUCT NAME:	GLEAM
ADDRESS LINE 1:	4300 Kahn Drive, Box 1405	PRODUCT CODE:	2052
ADDRESS LINE 2:	Lumberton, NC 28359-1405 USA	PRODUCT USE:	Descaler-Cleaner-Rust Remover
TELEPHONE NUMBERS:	800-753-5153 (or) 910-738-7224	SDS FILE ID:	2052.12
EMERGENCY PHONE:	CHEMTREC 1-800-424-9300	SDS DATE:	2023-09-21

REPLACES MSDS VERSION DATED: 2015-12-15 *and all prior revisions*

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification		
Health	Skin corrosion/irritation	1
	Serious eye damage/eye irritation	1
	Carcinogenicity	2
	Reproductive toxicity	1
	Specific target organ toxicity, repeated exposure	2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	DANGER
Hazard statements	Causes severe skin burns and eye damage. Causes serious eye damage. Suspected of causing cancer. May damage fertility of the unborn child. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN/HAIR: Immediately remove all contaminated clothing. Rinse skin 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. Wash contaminated clothing before reuse.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	33.18% of the mixture consists of component(s) of unknown acute dermal toxicity. 85.86% of the mixture consists of component(s) of unknown acute inhalation toxicity.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>CAS number</u>	<u>%</u>
Hydrochloric acid	7647-01-0	12.6
Amides, COCO, N,N-Bis(Hydroxyethyl)	68603-42-9	4.3222
Ethanol, 2,2'-Iminobis-	111-42-2	1.6808
Benzoic Acid, 2-Hydroxy-, Methyl Ester	119-36-8	0.697
Poly(Oxy-1,2-Ethanediy), Alpha-Hydro-Omega-Hydroxy-	25322-68-3	0.4202

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
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 large amounts of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact a physician or poison center immediately.
Ingestion	Call a physician or poison control center 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 result. 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 under observation. Symptoms may be delayed.
General information	If exposed or concerned: Get medical advice/attention. 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	Use water fog, foam, dry chemical powder, carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	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	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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 cleanup	Prevent entry into waterways, sewer, basements, or confined areas. Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand, or earth and place into containers. Following product recovery, flush area with water. Small spills: Wipe up with absorbent material (e.g. clothe, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. 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

Handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
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Storage Store locked up. Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS.)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Good general ventilation (typically 10 air changes per hour) 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.

Personal protective equipment The following are recommendations for Personnel Protective Equipment (PPE). The employers/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 Observe any medical surveillance requirements. 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.

Occupational exposure limits

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

Components	CAS #	Value	Type	Form
Hydrochloric acid	7647-01-0	7 mg/m3 5 ppm	CEILING	

US ACGIH Threshold Limit Values

Ethanol, 2,2'-Iminobis-	111-42-2	1 mg/m3	TWA	Inhalable fraction and vapor
Hydrochloric acid	7647-01-0	2 ppm	CEILING	

US NIOSH Pocket Guide to Chemical Hazards

Ethanol, 2,2'-Iminobis-	111-42-2	15 mg/m3 3 ppm	TWA	
Hydrochloric acid	7647-01-0	7 mg/m3 5ppm	CEILING	

US Workplace Environmental Exposure Level (WEEL) Guides

Poly(Oxy-1,2-Ethanediy), Alpha-Hydro-Omega-Hydroxy	25322-68-3	10 mg/m3	TWA	Particulate
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Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US – California OELs: Skin designation

Ethanol, 2,2'-Iminobis-	111-42-2	Can be absorbed through the skin.
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US ACGIH Threshold Limit Values: Skin designation

Ethanol, 2,2'-Iminobis-	111-42-2	Can be absorbed through the skin.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color Fuchsia liquid

Physical State Liquid

Odor Winter Green

Odor threshold Not available.

Flash point 200°F (93.3°C)

Flammability (solid, gas)	Not applicable.
Partition Coefficient	Not available.
Boiling point	159.74°F (70.97°C)
Melting point/freezing point	Not available.
Auto-ignition temperature	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Viscosity	Not available.
Water solubility	Not available.
pH	<1
Evaporation rate	Not available.
Decomp Temp	Not available.
Density	8.94 lbs/gal, 1.07 g/ml
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	53.1% estimated
Specific gravity	1.07
VOC	0.42% estimated

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage, and transport.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Amines.
Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause irritation to the respiratory system.
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 result.

Information on toxicological effects

Acute toxicity	Not known.
Benzoic Acid, 2-Hydroxy-, Methyl Ester	119-36-8
Acute toxicity	LD50 Oral-rat 0.887 g/kg
Ethanol, 2,2'-Iminobis	111-42-2
Acute toxicity	LD50 Oral-rat 710 mg/kg
Hydrochloric Acid	7647-01-0
Acute toxicity	LD50 Inhalation-rat 1,405 ppm, 4 Hours
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory sensitization	Not a respiratory sensitizer

Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Suspected of causing cancer.	
IARC	Amides, COCO, N,N-Bis(Hydroxyethyl) (CAS 68603-42-9)	2B Possibly carcinogenic to humans.
	Ethanol, 2,2'-Iminobis- (CAS 111-42-2)	2B Possibly carcinogenic to humans.
	Hydrochloric Acid (CAS 7647-01-0)	3 Not classifiable as to carcinogenicity to humans.
NTP	Not listed.	
OSHA	Not regulated.	
Reproductive toxicity	May damage fertility or the unborn child.	
Specific target organ toxicity, single exposure	Not classified.	
Specific target organ toxicity, repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	The product is 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.	
Ethanol, 2,2'-Iminobis-	111-42-2	
Toxicity to crustacea EC50	Water flea (Ceriodaphnia dubia)	61.8 – 86.04 mg/l, 48 hours
Toxicity to fish LC50	Fathead minnow (Pimephales promelas)	100 mg/l, 96 hours
Hydrochloric Acid	7647-01-0	
Toxicity to fish LC50	Western mosquitofish (Gambusia affinis)	282 mg/l, 96 hours
Poly(Oxy-1,2-Ethanediy), Alpha-Hydro-Omege-Hydroxy-	25322-68-3	
Toxicity to fish LC50	Atlantic salmon (Salmo salar)	>1,000 mg/l, 96 hours
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.	
Bio-accumulative potential		
Partition coefficient n-octanol/water (log Kow)		
Benzoic Acid, 2-Hydroxy-, Methyl Ester	2.55	
Ethanol, 2,2'-Iminobis-	-1.43	
Mobility in soil	Not available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone create potential, endocrine disruption, global warming potential) are expected from this component.	

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	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 (see: Disposal instructions.)
Contaminated packaging	Since 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 INFORMATION FOR QUANTITIES GREATER THAN 145.2 LITERS PER PACKAGE:

UN number	UN1789
UN proper shipping name	HYDROCHLORIC ACID
Transport hazard class(es)	Class 8
	Subsidiary risk -
Packing group	II
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling.
ERG number	157

Transportation information on packaging may be different from that listed.

DOT INFORMATION FOR QUANTITIES LESS THAN 1.3 LITERS PER BOTTLE

Shipping name	HYDROCHLORIC ACID, LIMITED QUANTITY
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling.
ERG number	157

Transportation information on packaging may be different from that listed.

IATA

UN number	UN1789
UN proper shipping name	HYDROCHLORIC ACID
Transport hazard class(es)	Class 8
	Subsidiary risk -
Packing group	II
Environmental hazards	No.
ERG Code	157
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling.

IMDG

UN number	UN1050
UN proper shipping name	HYDROGEN CHLORIDE, ANHYDROUS, MARINE POLLUTANT
Transport hazard class(es)	Class 2.3
	Subsidiary risk 8
Packing group	Not available.
Environmental hazards	Marine pollutant Yes.
EmS	F-C, S-U
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 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)

Ethanol, 2,2'-Iminobis- (CAS 111-42-2) Listed.

Hydrochloric Acid (CAS 7647-01-0) Listed.

SARA 304 Emergency release notification

Hydrochloric Acid (CAS 7647-01-0) 5,000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical Name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Hydrochloric Acid	7647-01-0	5,000	500		

SARA 311/312 Hazardous chemical

Yes

Classified hazard categories

Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name	CAS Number	% by wt.
Ethanol, 2,2'-Iminobis-	111-42-2	1.6808
Hydrochloric Acid	7647-01-0	12.6

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Ethanol, 2,2'-Iminobis- (CAS 111-42-2) Hydrochloric Acid (CAS 7647-01-0)
Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130)	Hydrochloric Acid (CAS 7647-01-0)
Safe Drinking Water Act (SDWA)	Not regulated.
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number	
Hydrochloric Acid (CAS 7647-01-0)	6545
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))	
Hydrochloric Acid (CAS 7647-01-0)	20% WV
DEA Exempt Chemical Mixtures Code Number	
Hydrochloric Acid (CAS 7647-01-0)	6545

State Regulations

California Proposition 65:



WARNING: This product can expose you to Ethanol, 2,2'-Iminobis-, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

California Proposition 65 – CRT: Listed date/Carcinogenic substance

ETHANOL, 2,2'-IMINOBIS- (CAS 111-42-2) Listed: June 22, 2012

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

Amides, COCO, N,N-Bis(Hydroxyethyl) (CAS 68603-42-9)

ETHANOL, 2,2'-IMINOBIS- (CAS 111-42-2)

Hydrochloric Acid (CAS 7647-01-0)

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

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