

SAFETY DATA SHEET



SECTION 1: IDENTIFICATION

COMPANY NAME:	AMERICAN INDUSTRIES, INC.	PRODUCT NAME:	STERN-X (A)
ADDRESS LINE 1:	4300 Kahn Drive, Box 1405	PRODUCT CODE:	1209
ADDRESS LINE 2:	Lumberton, NC 28359-1405 USA	PRODUCT USE:	Non-selective Herbicide & Soil Sterilant
TELEPHONE NUMBERS:	800-753-5153 (or) 910-738-7224	SDS FILE ID:	1209.02
EMERGENCY PHONE:	CHEMTREC 1-800-424-9300	SDS DATE:	2015-10-08
		REPLACES VERSION DATED:	2013-01-18 and all prior versions

SECTION 2: HAZARDS IDENTIFICATION

Classification:	Flammable Aerosol	Category 1 H222
	Eye Irritant	Category 2A H319
	Aspiration Hazard	Category 1 H304

Label elements



Signal word

Danger

Hazard statement:

Extremely flammable liquid.
May be fatal if swallowed and enters airways.
Causes serious eye irritation.

Precautionary statement

Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a POISON CENTER, a doctor. Do NOT induce vomiting.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C).
Dispose of contents/container to comply with local/regional/national/international regulations.

Other hazards

No additional information available.

Unknown acute toxicity

Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance Not applicable

Full text of H-phrases: see section 16

Mixture

<u>Chemical name</u>	<u>CAS number</u>	<u>%</u>	<u>GHS Classification</u>
Hydrocarbons, C11-C14,n-alkanes, isoalkanes, cyclic, <2% aromatics	64742-47-8	20-40	Flam. Liq. 4, H227 Asp. Tox. 1, H304
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	112-34-5	10-20	Eye Irrit. 2A, H319
Propane	74-98-6	2.5-10	Flam. Gas 1, H220 Compressed gas, H280
Bromacil	314-40-9	1-2.5	Eye Irrit. 2A, H319

SECTION 4: FIRST AID MEASURES

General	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Inhalation	Move the affected person away from the contaminated area and into fresh air. Respiratory problems: consult a doctor/medical service..
Skin contact	Take off contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact	Rinse immediately with plenty of water for 15l minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately..
Ingestion	Rinse mouth. Call a poison center or a doctor if you feel unwell. Do NOT induce vomiting.
Symptoms/injuries	May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	No effects known.
Symptoms/injuries after skin contact	Repeated exposure may cause skin dryness or cracking.
Symptoms/injuries after eye contact	Direct contact with the eyes is likely irritating.
Symptoms/injuries after ingestion	May be fatal if swallowed and enters airways.
Special treatment needed	Treat symptomatically. Symptoms may be delayed.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Alcohol-resistant foam. Water fog. Dry chemical powder, Carbon dioxide.
Unsuitable extinguishing media	Do not use a water jet since it may cause the fire to spread.
Fire hazard	Under fire conditions closed containers may rupture or explode. Extremely flammable aerosol.
Explosion hazard	Contents under pressure. Pressurized container: May burst if heated.
Reactivity	The product is non-reactive under normal conditions of use, storage and transport. Upon combustion: CO and CO2 are formed. Move containers away from the fire area if this can be done without risk. Use water spray or fog for cooling exposed containers. For massive fire I cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn pout.
Firefighting instructions	

SECTION 6: ACCIDENTAL RELEASE MEASURES

General measures	Evacuate unnecessary personnel. Stay upwind/keep distance from source. Gas is denser than air. May accumulate in low areas e.g. close to the ground. Eliminate very possible source of ignition. Isolate from fire, if possible without unnecessary risk.
Protective equipment for non-emergency personnel	Do not enter without appropriate protective equipment. DO NOT touch spilled material.
Emergency procedures for non-emergency personnel	Ventilate the area thoroughly, especially low lying areas (basements, work pits etc.). Advice local authorities if considered necessary.
Emergency procedures for emergency responders	No additional information available.
Environmental precautions	Prevent runoff from entering drains, sewers or waterways. .Avoid release to the environment.
Methods for containment	Eliminate every possible source of ignition. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if safe to do so. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent the product from entering drains or confined areas. For further information refer to section 8 Exposure-controls/personal protection. Use water spray to disperse the vapors.
Methods for cleaning up	Take up liquid spill into absorbent material.

SECTION 7: HANDLING AND STORAGE

Additional hazards when processed	Pressurized container: Do not pierce or burn, even after use.
Precautions for safe handling	Do not use if spray button is missing or defective. Do not spray on a naked flame or any incandescent material. Do not smoke while handling product. Do not cut, weld, solder, drill, grind, or expose containers to eat, flame sparks, or other sources of ignition. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Do not re-use empty containers. Avoid breathing dust, fume, gas, mist, spray, vapors. Use only outdoors or in a well ventilated area. Use personal protective equipment as required.
Hygiene measures	Use good personal hygiene practices.
Technical measures	Pressurized container. Do not puncture, incinerate or crush. Take precautionary measures against static discharge.
Storage conditions	Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C). Refrigerate.
Incompatible products	Strong oxidizing agents.
Incompatible materials	Heat sources. Sources of ignition.
Heat –ignition	KEEP SUBSTANCE AWAY FROM: Ignition sources. Heat sources.
Storage area	Aerosol 3.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Component</u>	<u>ACGIH TWA (ppm)</u>	<u>OSHA PEL (TWA) (ppm)</u>
Propane (74-98-6)	1000 ppm	1000 ppm
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)	10 ppm	
Bromacil (314-40-9)	10mg/m ³	
Personal protective equipment	Gloves. Protective clothing. Safety glasses. Use appropriate personal protective equipment when risk assessment indicates this is necessary.	
Hand protection	Protective gloves.	
Eye protection	Chemical goggles or safety glasses.	
Skin and body protection	Wear suitable protective clothing.	
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge or an air supplied respirator.	
Thermal hazard protection	Use appropriate personal protective equipment when risk assessment indicates this is necessary.	
Consumer exposure controls	When using do not smoke. Use good personal hygiene practices. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Gas
Appearance	Aerosol. Liquid.
Odor	Mild hydrocarbon odor.
Odor threshold	No data available
pH	No data available
Melting point	No data available
Boiling point	No data available
Freezing Point	No data available
Flash point	-156°F (-104°C)

Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	No data available
Explosion limits	No data available
Explosive properties	No data available.
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
Relative vapor density at 20°C (68°F)	No data available
Specific gravity/density	0.788 g/ml estimated
Solubility in Water	Not determined.
Log Pow	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
VOC content	Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity	This product is non-reactive under normal conditions of use, storage and transport. Upon combustion: CO and CO ₂ are formed.
Chemical stability	Stable under normal conditions.
Conditions to avoid	Aerosol containers are unstable at temperatures above 120°F (49°C). Avoid temperatures exceeding the flash point.
Incompatibility	Oxidizing agents. Chlorine. Fluorine. Nitrates.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possible hazardous reactions	Hazardous polymerization does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Not classified.	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclic, <2% aromatics (64742-47-8)	LD50 dermal rabbit	>5000 mg/kg body weight(Rabbit; Literature)
Bromacil (314-40-9)	LD50 oral rat	5200 mg/kg (Rat)
	LD50 dermal rat	>2500 mg/kg (Rat)
	LD50 dermal rabbit	>5000 mg/kg (Rabbit)
	LC50 inhalation rat (mg/l)	>4.8 mg/l/4h (Rat)
	ATE CLP (oral)	5200.000 mg/kg body weight
Skin corrosion/irritation	Not classified	
Serious eye damage/irritation	Causes serious eye irritation.	
Respiratory or skin	Not classified.	

sensitization

Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ toxicity (single exposure)	Not classified.
Specific target organ toxicity (repeated exposure)	Not classified.
Aspiration hazard	May be fatal if swallowed and enters airways.
Potential adverse human health effects and symptoms	Dizziness. Direct contact with the eyes is likely irritating.
Symptoms/injuries after inhalation	No effects known.
Symptoms/injuries after skin contact	Repeated exposure may cause skin dryness or cracking.
Symptoms/injuries after eye contact	Direct contact with the eyes is likely irritating.
Symptoms/Injuries after ingestion	May be fatal if swallowed and enters airways.
Likely routes of exposure	Skin and eyes contact.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclic, <2% aromatics (64742-47-8)	LC50 fish 1 EC50 Daphnia 1 Threshold limit algae 1	>100 mg/l (Pisces) >100 mg/l (Invertebrata) >100 mg/l (Algae)
Bromacil (314-40-9)	LC50 fish 1 LC50 fish 2 Threshold limit other aquatic organisms 1	75 mg/l 48 h; Salmo gairdneri (Oncorhynchus mykiss) 71 mg/l (48 h; Leuciscus idus) 1 mg/l (Pemephales promelas; Chronic)

Persistence and degradability

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclic, <2% aromatics (64742-47-8)	Persistence and degradability	Readily biodegradable in water, Absorbs into the soil.
Bromacil (314-40-9)	Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil. Photodegradation in the air.

Bioaccumulative potential

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclic, <2% aromatics (64742-47-8)	LOG POW Bioaccumulative potential	6 – 8.2 High potential for bioaccumulation (Log Kow >5).
Bromacil (314-40-9)	BCF fish 1 BCF fish 2 Log Pow Bioaccumulative potential	2.8 – 26.5 (672h; Leuciscus idus; Fresh weight) 4.25 (388 h; Pimephales promelas; Fresh weight) 2.11 Low potential for bioaccumulation (BCF <500).

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container to comply with local/regional/national/international regulations.
Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.
Additional information	Empty containers should be taken for recycle, recovery or waste ion accordance with local regulation. Handle empty containers with care because residual vapors are flammable. Handle unclean empty containers as full ones. Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

DOT	Class: 2.1 Flammable gas UN:1950 Class: 2.14 Proper Shipping Name: Aerosols, Flammable
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This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

SECTION 15: REGULATORY INFORMATION

TSCA Status: All chemicals are listed or exempt.

This product or mixture contains the following chemicals subject to the reporting requirements of SARA Title iii, Section 313 and 40 CFR Part 372.

Bromacil	CAS No 314-40-9	1 – 2.5
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	CAS No 112-34-5	10 - 20
Propane	CAS NO 74-98-6	Not listed on SARA Section 313 (Specific toxic chemical listings)
Bromacil	CAS No 314-40-9	Not listed on SARA Section 313 (Specific toxic chemical listings)
California Proposition 65	This [product does not contain substances known to the state of California to cause cancer and/or reproductive toxicity.	

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Harmful if absorbed through the skin. Avoid contact with skin, eyes, or clothing.

EPA REG NO: 1088-114-38090

SECTION 16: OTHER INFORMATION

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

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