

# SAFETY DATA SHEET



## SECTION 1: IDENTIFICATION

**COMPANY NAME:** AMERICAN INDUSTRIES, INC.  
**ADDRESS LINE 1:** 4300 Kahn Drive, Box 1405  
**ADDRESS LINE 2:** Lumberton, NC 28359-1405 USA  
**TELEPHONE NUMBERS:** 800-753-5153 (or) 910-738-7224  
**EMERGENCY PHONE:** CHEMTREC 1-800-424-9300

**PRODUCT NAME:** BARRAGE  
**PRODUCT CODE:** 2384  
**PRODUCT USE:** Citrus Blended Solvent  
**SDS FILE ID:** 2384.05  
**SDS DATE:** 2017-11-14

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

## SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

Environmental	Hazards to the aquatic environment	Chronic, 1
Health	Respiratory or skin sensitization	1, Skin
	Skin corrosion/irritation	2
	Serious eye damage/Eye irritation	2 A
Physical	Flammable liquid	3

Label elements



Signal word: WARNING

Hazard statements:  
H410 Very toxic to aquatic life with long lasting effects.  
H317 May cause an allergic skin reaction.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H226 Flammable liquid and vapor

Precautionary statements:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353: IF ON SKIN (or hair): Remove/take off all contaminated clothing. Rinse skin with water/shower.  
P305 + P351 + P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P403+P235: Store in a well ventilated place. Keep cool,

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS number	%
Cyclohexene, 1-methyl-4-(1-methylethyenyl)-, (4R)-	5989-27-5	5-10

The specific chemical identity and/or exact percentages are being withheld as a trade secret (CBI). In the event of an emergency, the exact chemical formula and percentages will be given to medical personnel upon request.

All chemicals in this product are reported in the EPA, TSCA Inventory.

## SECTION 4: FIRST AID MEASURES

Inhalation: If inhaled, move to fresh air. If symptoms persist, obtain medical attention.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If irritation persists, obtain medical attention.

Eye contact: Immediately, 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: Do not induce vomiting without medical advice. Drink plenty of water to dilute. Do not give anything by mouth to an unconscious or convulsing person. Contact a physician immediately.

## Effects and symptoms

Ingestion	May be harmful if swallowed.
Inhalation	Causes allergy or asthma symptoms.
Skin contact	Causes severe skin burns.
Eye contact	Causes eye damage.

## SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing methods	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.
Specific hazards during fire fighting	Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health.
Special protective equipment	Full protective clothing and approved self-contained breathing apparatus required for firefighting 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. Prevent uncontrolled discharge of product into the environment if safe to do so.

Methods and Materials for Containment and Cleanup: Do not discharge into waste water. Soak up with an inert absorbent material (e.g. sand, silica gel, sawdust). Sweep up and shovel. Place in a non-leaking container for proper disposal according to Federal, State, and Local regulations.

## SECTION 7: HANDLING AND STORAGE

Handling	Wear personal protective equipment when handling product. Handle with care. Take care to avoid waste and spillage when weighing, loading and mixing the product.
Storage	Observe label precautions. Keep container tightly closed in a dry, cool and well-ventilated place. Do not allow product to freeze.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Use in well ventilated area.
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Personal Protective Equipment: Safety Glasses, Gloves, Apron

Use good chemical hygiene practice. Avoid contact with skin, eyes, and clothing. Avoid inhalation of vapors.

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	5989-27-5	5-10%	No data available
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color	Clear orange liquid
Physical State	Liquid
Odor	Citrus
Flash point	135°F (57°C)
Partition Coefficient	No data available
Boiling point	No data available
Melting point/freezing point	No data available
Auto-ignition temperature	No data available
Vapor pressure	No data available
Vapor density (Air-1)	No data available
Specific gravity/Density	1.0
Viscosity	No data available
Water solubility	Soluble in water
pH	5-7
Evaporation rate (Ether=1)	No data available

Decomp Temp No data available

#### SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable  
Chemical stability Stable under normal conditions.  
Conditions to avoid Open flame and excessive heat.  
Materials to avoid Avoid contact with strong oxidizing agents. Strong acids and strong bases.  
Hazardous decomposition Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO). Other unknown decomposition products possible.  
Hazardous polymerization Will not occur

#### SECTION 11: TOXICOLOGICAL INFORMATION

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- 5989-27-5 5-10%  
Information on toxicological effects  
Acute toxicity LD50 Oral-rat-4,4000 mg/kg Remarks: Behavioral: Change in motor activity (specific assay). Respiratory disorder Skin and Appendages: Other: Hair. Inhalation: Irritating to respiratory system.  
LD50 (Dermal) Rabbit>5,000 mg/kg No data available  
Skin corrosion/irritation No data available.  
Serious eye damage/eye irritation No data available.  
Respiratory or skin sensitization May cause sensitization by skin contact.  
Germ cell mutagenicity No data available.  
Carcinogenicity-rat-Oral Tumorigenic: Carcinogenic by RTECS criteria. Kidney, Urethra, Bladder: Kidney tumors. Tumorigenic Effects: Testicular  
Carcinogenicity-mouse-Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Gastrointestinal: Tumors.  
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification  
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (D-Limonene)  
ACGIH No components 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 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: GW6360000  
Liver Irregularities-Based on human evidence

#### SECTION 12: ECOLOGICAL INFORMATION

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- 5989-27-5 5-10%  
Toxicity to fish LC50 Pimephales promelas (fathead minnow) 0.702 mg/l-96.0 h  
Toxicity to daphnia and EC50 Daphnia pulex (Water flea) 69.6 mg/l-48 h  
Persistence and degradability No data available

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. Very toxic to aquatic life.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Do not dispose of waste into sewer. Contact a licensed professional waste disposal service to dispose of this material. Dispose of waste material in accordance with all local, regional, national, and international regulations. Contaminated packaging: 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 5 LITERS PER CONTAINER:	UN 2319, Terpene hydrocarbons, n.o.s., 3, PGIII (D-Limonene)
DOT INFORMATION FOR QUANTITIES LESS THAN 5.0 LITERS PER JUG:	Terpene hydrocarbons, n.o.s, Limited Quantity
Marine Pollutant	No

**SECTION 15: REGULATORY INFORMATION**

COMPONENT	(CAS/PERC)	CODES
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)	5989275 (5-10%)	TSCA
REGULATORY CODE DESCRIPTIONS- TSCA = Toxic Substances Control Act		

**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\*\*\*