SAFETY DATA SHEET



SECTION 1: IDENTIFICATION

COMPANY NAME:AMERICAN INDUSTRIES, INC.PRODUCT NAME:BARRAGEADDRESS LINE 1:4300 Kahn Drive, Box 1405PRODUCT CODE:2384

ADDRESS LINE 2: Lumberton, NC 28359-1405 USA PRODUCT USE: Citrus Blended Solvent TELEPHONE NUMBERS: 800-753-5153 (or) 910-738-7224 SDS FILE ID: 2384.06

EMERGENCY PHONE: CHEMTREC 1-800-424-9300 SDS DATE: 2022-09-13

REPLACES MSDS VERSION DATED: 2017-11-14 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

Serious eye damage/Eye irritation 2 / 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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nameCAS number%Cyclohexene, 1-methyl-4-(1-methylethyenyl)-5989-27-55-10

, (4R)-

Butanedioic acid, dimethyl ester 106-65-0 20-22 Alcohols, C9-11-iso-, C10-rich, ethoxylated 78330-20-8 20-22

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 I 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.

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SECTION 5: FIRE-FIGHTING MEASURES

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 Full protective clothing and approved self-contained breathing apparatus required for firefighting

equipment 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

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

Butanedioic acid, dimethyl 106-65-0 20-22% No data available

ester

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color Clear orange liquid

Physical State
Odor
Citrus
Flash point
135°F (57°C)
Partition Coefficient
Boiling point
Melting point/freezing
No data available
No data available

point

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.

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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 (CO2), carbon monoxide (CO). Other unknown decomposition products possible.

Hazardous polymerization Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Cyclohexene, 1-methyl-4- 5989-27-5 5-10%

(1-methylethenyl)-, (4R)-

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.

No data available.

Serious eye damage/eye

irritation

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: 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.

No data available.

Reproductive toxicity

Specific target organ

Single exposure-No data available

Repeated exposure-No data available

tanger organ

toxicity

Aspiration hazard No data available
Additional Information RTECS: GW6360000

Liver Irregularities-Based on human evidence

Butanedioic acid, dimethyl 106-65-0 20-22% ester

Information on toxicological

effects

Acute toxicity: LD50 Oral - rat - female - 6,892 mg/kg; LD50 Inhalation - rat - male and female - > 2,000 mg/l; LD50

Dermal - rabbit - > 5,000 mg/kg; no data available

Skin corrosion/irritation Skin - rabbit Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage/eye

irritation

Eyes - rabbit Result: Mild eye irritation (OECD Test Guideline 405)

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Respiratory or skin sensitization

in vivo assay - mouse Result: Did not cause sensitization on laboratory animals. (OECD Test

Guideline 429)

Germ cell mutagenicity

mouse lymphocyte Result: negative in vitro assay S. typhimurium

Carcinogenicity:

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

Specific target organ

toxicity

Single exposure-No data available

Repeated exposure-No data available

No data available Aspiration hazard

RTECS: WM7675000 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

No data available.

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

An environmental hazard cannot be excluded in the event of unprofessional Other adverse effects

handling or disposal. Very toxic to aquatic life.

Butanedioic acid, dimethyl ester	106-65-0	20-22%		
Toxicity to fish semi-static LC50	Danio rerio (zebra	50-100 mg/l-96.0 h		
(OECD Test Guideline 203)	fish)			
Toxicity to daphnia and static test EC50	Daphnia magna	100 mg/l-48 h		
(other aquatic (OECD Test Guideline 202) invertebrates	(Water flea)			
Toxicity to algae static test EC50 – (OECD Test Guideline 201)	Pseudokirchneriella subcapitata	>100 mg/l-72.0 h		
Toxicity to bacteria Growth inhibition EC50 (OECD Test Guideline 209	Sludge Treatment	1000 mg/l-3 h		
Persistence and degradability	Biodegradability aerobic - Exposure time 28 d Result: 74.1 % - Readily biodegradable.			
(OECD Test Guideline 301B)	bioacgiadabic.			
Bioaccumulative 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			

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SECTION 13: DISPOSAL CONSIDERATIONS

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- (5989-27-5) [5-10%]

Waste treatment methods:

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Butanedioic acid, dimethyl ester (106-65-0) [20-22%]

Waste treatment methods

Product: This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION FOR QUANTITIES UN 2319, Terpene hydrocarbons, n.o.s., 3, PGIII (D-Limonene)

GREATER THAN 5 LITERS PER CONTAINER:

Marine Pollutant No

SECTION 15: REGULATORY INFORMATION			
COMPONENT	(CAS/PERC)	CODES	
Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (4R)	5989275 (5-10%)	TSCA	
Butanedioic acid, dimethyl ester	106-65-0 (20-22%)	TSCA	
Alcohols, C9-11-iso-, C10-rich, ethoxylated	78330-20-8 (20-22%)	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

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