SAFETY DATA SHEET

AMERICAN INDUSTRIES, INC.®
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SECTION 1: IDENTIFICATION

COMPANY NAME:	AMERICAN INDUSTRIES, INC.	**PRODUCT NAME:**	**MANDRON**
ADDRESS LINE 1:	4300 Kahn Drive, Box 1405	**PRODUCT CODE:**	2268
ADDRESS LINE 2:	Lumberton, NC 28359-1405 USA	**PRODUCT USE:**	All Natural Citrus Solvent
TELEPHONE NUMBERS:	800-753-5153 (or) 910-738-7224	**SDS FILE ID:**	2268.09
EMERGENCY PHONE:	**CHEMTREC 1-800-424-9300**	**SDS DATE:**	2015-06-01

REPLACES MSDS VERSION DATED: 2014-01-02 *and all prior revisions*

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

Health	Skin irritation	Category 2
	Aspiration hazard	Category 1
Environmental	Chronic Aquatic Toxicity	Category 1
	Acute Aquatic Toxicity	Category 1
Physical	Flammable Liquid	Category 3

Label elements

Signal word: Danger

Hazard statements:
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS number	%
D-limonene	5989-27-5	90-100
Nonlyphenol, ethoxylated	9016-45-9	01-10

SECTION 4: FIRST AID MEASURES

Inhalation	For excessive inhalation remove to fresh air. If breathing is difficult seek medical attention.
Skin contact	Wash affected areas with soap and water. If irritation develops seek medical attention.
Eye contact	Flush with large amounts of cool running water as a precaution. If irritation persists obtain medical attention.
Ingestion	Seek immediate medical attention. DO NOT induce vomiting. Rinse mouth with water.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazardous combustion products	Oxides of carbon and various hydrocarbons.
Fire fighting procedures	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent), and full protective gear.
Unusual fire and explosion hazards	Containers can build up pressure if exposed to heat and/or fire. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire releasing vapors that may form an explosive mixture with air.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Suitable protective clothing should be worn. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Eliminate all ignition sources. Shut off or plug source of spill. Absorb on inert media and collect into suitable container.

Large Spills: Dike spill area to contain liquid. Salvage as much re-useable liquid as possible into a suitable container. Then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Avoid contaminating ground and surface water.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with eyes, or skin. Do not breathe vapors or mists. Keep container closed and tightly sealed when not in use. Take measures to prevent the buildup of electrostatic charge.
Storage	This material is a static accumulator. Use non-sparking tools. Store in a cool, dry, ventilated area, away from incompatible substances. Store only in approved properly labeled containers. Containers should be grounded and bonded.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide explosion-proof ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

Exposure limits	D-limonene	20 ppm ACGIH; 50 ppm OSHA
	Nonylphenol	Contains no substances with occupational exposure limit values

Personal Protective Equipment:

Eyes	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.
Skin	If prolonged or repeated skin contact is likely, wear appropriate protective gloves.
Clothing	Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items
Respirators	Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color	Colorless to light yellow
Form	Liquid
Odor	Citrus Odor
Flash point	153^{o}F (67^{o}C)
Flammability limits	Upper 6
	Lower 1
Boiling point	314^{o}F (157^{o}C)
Melting point/freezing point	-88^{o}F (-67^{o}C)
Auto-ignition temperature	473^{o}F (245^{o}C)
Vapor pressure	34 mmHg

Vapor density (Air-1)	4.4
Specific gravity	0.862
Water solubility	Complete
Volatile%	100
pH	Not applicable
Evaporation rate (Water=1)	No available data

SECTION 10: STABILITY AND REACTIVITY

Chemical stability	Stable under normal use and temperature conditions.
Conditions to avoid	Keep away from heat, flame and other potential ignition sources.
Incompatible materials	Strong oxidizing agents.
Hazardous polymerization	Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Signs and symptoms of overexposure

Skin	May cause slight redness. Prolonged or repeated contact may cause drying of the skin.
Eyes	Liquid in the eyes can be irritating, causing tearing and redness.
Inhalation	May cause nose, throat, and respiratory tract irritation, coughing and headache.
Ingestion	Not a normal route of entry. However, ingestion of large quantities may cause vomiting, headache, or other medical problems.
Acute oral toxicity	D-Limonene: LD50 rat: 4,400 mg/kg Nonylphenol: LD50 rat: 3780 mg/kg
Acute inhalation toxicity	D-Limonene: LC50 rat: No available data Nonylphenol LC50 rat: No available data
Acute dermal toxicity	D-Limonene: LD50 rabbit: > 5,000 mg/kg Nonylphenol LD50 rabbit: >2000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Aquatic toxicity	This product is unlikely to pose a significant hazard to aquatic life
Bio-accumulative potential	This product is rapidly biodegradable.
Mobility	Product is not likely to penetrate the soil due to rapid evaporation.

SECTION 13: DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: TRANSPORT INFORMATION

US DOT For Quantities Greater Than 66 Lbs Per Package

Proper shipping name	Combustible Liquid, N. O. S. (D-Limonene, Nonylphenol, ethoxylated)
Hazard Class	Comb Liq
NA Number	1993
Packaging Group	III

US DOT Quantities Less Than 66 Lbs Per Package

Proper shipping name	Not Regulated.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Comprehensive Environmental Response and Liability Act (CERCLA)

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material has not been established.
TSCA Inventory Listing	All components of this product are listed on the TSCA inventory list.
SARA 311/312 Classification	Acute Health Hazard, Chronic Health Hazard
SARA 313 Chemical	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
Clean Water Act	None of the chemicals in this product are listed as Hazardous Substances under the CWA.
Clean Air Act	None of the chemicals in this product are listed as Hazardous Substances under the CAA.
California Prop 65	This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

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