

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 03/22/2023

Version: 1.2

#### **SECTION 1: IDENTIFICATION**

Product Identifier
Product Form: Mixture
Product Name: Citrus Solvent
Product Code: AFCO 1005
Intended Use of the Product

Use of the Substance/Mixture: Cleaning solvent for removing adhesives, oils and greases. For professional use only.

Name, Address, and Telephone of the Responsible Party

Company AFCO

800 Development Avenue Chambersburg, PA 17201

T: 800-345-1329 www.afcocare.com

**Emergency Telephone Number** 

Emergency Number : 1-800-424-9300 (CHEMTREC)

## **SECTION 2: HAZARDS IDENTIFICATION**

#### **Classification of the Substance or Mixture**

## Classification (GHS-US)

Flam. Liq. 3 H226 Asperation 1 H304 Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

# Label Elements GHS-US Labeling

Hazard Pictograms (GHS-US)







Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H226 - Flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements (GHS-US) : P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical, ventilating, and lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust/fumes/gas/mist/vapours/spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P271 - Use only outdoors or in a well ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves, protective clothing, eye protection, face protection,

respiratory protection.

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P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P321 - Specific treatment (see section 4).

P331 - Do NOT induce vomitting if swallowed.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use appropriate media for extinction.

P391 - Collect spillage.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations.

#### **Other Hazards**

**Other Hazards Not Contributing to the Classification**: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes. Flammable gas.

Unknown Acute Toxicity (GHS-US) Not available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substances**

## **Mixture**

Name	Product identifier	% (w/w)	Classification (GHS-US)
d-Limonene	(CAS No) 5989-27-5	90-100	Flam. Liq. 3, H226
			Asperation 1, H304
			Skin Irrit. 2, H315
			Skin Sens. 1, H317
			Aquatic Acute 1, H400
			Aquatic Chronic 1, H410

Full text of H-phrases: see section 16.

## **SECTION 4: FIRST AID MEASURES**

#### **Description of First Aid Measures**

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists. Wash contaminated clothing before reuse.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

## Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes serious eye irritation. Causes skin irritation.

**Inhalation:** Inhalation of large amounts may cause respiratory irritation, drowsiness, or dizziness.

**Skin Contact:** Causes skin irritation. May cause an allergic skin reaction.

**Eye Contact:** Causes serious eye irritation.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

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Chronic Symptoms: Not available

### Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

### **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

Suitable Extinguishing Media: Water spray, fog, carbon dioxide, foam, dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### **Special Hazards Arising From the Substance or Mixture**

Fire Hazard: Flammable liquid and vapor.

**Explosion Hazard:** May form flammable/explosive vapor-air mixture.

Reactivity: When heated to decomposition, emits toxic fumes. Flammable gas.

#### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. **Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>).

**Other information:** Do not allow run-off from fire fighting to enter drains or water courses.

**Reference to Other Sections** 

Refer to section 9 for flammability properties.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing (vapors, mist, spray). Avoid all contact with skin, eyes, or clothing. Keep away from

heat/sparks/open flames/hot surfaces. - No smoking.

#### For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

**For Emergency Personnel** 

**Protective Equipment:** Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

#### **Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment.

#### Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or inert absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Contact competent authorities after a spill.

#### **Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection.

### **SECTION 7: HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

**Additional Hazards When Processed:** When heated to decomposition, emits toxic fumes. Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

## **Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high temperatures, direct sunlight, heat, ignition sources, incompatible materials.

Incompatible Materials: Strong oxidizers.

Special Rules on Packaging: Keep only in original container.

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Specific End Use(s): Cleaning solvent for removing adhesives, oils and greases. For professional use only.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control Parameters**

d-Limonene (5989-27-5)		
USA ACGIH (TLV)	TWA (ppm)	20 ppm

#### **Exposure Controls**

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. If user operations generate fumes, vapors, gas, or spray use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or regulatory limits.

Personal Protective Equipment: Protective goggles. Insufficient ventilation: wear respiratory protection. Gloves.







Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or face shield.

Skin and Body Protection: None needed.

Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist

are expected to exceed exposure limits.

**Upper Flammable Limit** 

**Vapor Pressure** 

Other Information: When using, do not eat, drink or smoke.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### **Information on Basic Physical and Chemical Properties**

Physical State : Liquid

**Appearance** : Clear, yellow to colorless

Odor Orange **Odor Threshold** Not available Not available Relative Evaporation Rate (butylacetate=1) Not available **Melting Point** Not available **Freezing Point** Not available **Boiling Point** 154.4°C (310°F) **Flash Point** 46.1°C (115°F) **Auto-ignition Temperature** Not available **Decomposition Temperature** Not available Flammability (solid, gas) Not available **Lower Flammable Limit** Not available

Relative Vapor Density at 20°C: Not availableSpecific Gravity: 0.84Solubility: InsolublePartition coefficient: n-octanol/water: Not availableViscosity: Not available

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact

Not available

2 mm Hg at 20°C

**Explosion Data – Sensitivity to Static Discharge** : Static discharge may present an explosion hazard

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### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity: When heated to decomposition, emits toxic fumes. Flammable gas.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high temperatures. Heat. Ignition sources. Combustible materials. Incompatible

materials.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition Products: Carbon oxides (CO, CO<sub>2</sub>). May release flammable gases.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### **Information on Toxicological Effects - Product**

Acute Toxicity: Not classified. LD50 and LC50 Data: Not available.

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

**Teratogenicity:** Not available. **Carcinogenicity:** Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: Inhalation of large amounts may cause respiratory irritation, drowsiness, or dizziness.

Symptoms/Injuries After Skin Contact: Causes skin irritation. May cause an allergic skin reaction

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

d-Limonene (5989-27-5)	
LD50 Oral Rat	4400 mg/kg
IARC Group	3

### **SECTION 12: ECOLOGICAL INFORMATION**

#### **Toxicity**

Ecology - General: Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

d-Limonene (5989-27-5)	
LC50 Fish 1	0.72 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.36 mg/l (Exposure time: 48 h - Species: Daphnia magna)

#### Persistence and Degradability

d-Limonene (5989-27-5)	
Persistence and Degradability	71% - Readily biodegradable (OECD Test Guideline 301B)

#### **Bioaccumulative Potential**

d-Limonene (5989-27-5)	
Log Pow	4.2

Mobility in Soil Not available.

**Other Adverse Effects** 

Other Information: Not classified.

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### **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Keep out of sewers and waterways.

#### **SECTION 14: TRANSPORT INFORMATION**

### 14.1 In Accordance with DOT

**Proper Shipping Name** : TERPENE HYDROCARBONS, N.O.S.

Hazard Class : 3

**Identification Number** : UN2319

Label Codes : 3
Packing Group : III
ERG Number : 128
14.2 In Accordance with IMDG

Proper Shipping Name : TERPENE HYDROCARBONS, N.O.S.

Hazard Class : 3

Identification Number: UN2319Packing Group: III

Label Codes : 3 EmS-No. (Fire) : F-E EmS-No. (Spillage) : S-E

14.3 In Accordance with IATA

**Proper Shipping Name** : TERPENE HYDROCARBONS, N.O.S.

Packing Group : III

**Identification Number** : UN2319

Hazard Class: 3Label Codes: 3ERG Code (IATA): 3L

14.4 In Accordance with TDG

**Proper Shipping Name** : TERPENE HYDROCARBONS, N.O.S.

Packing Group: IIIHazard Class: 3Identification Number: UN2319

Label Codes : 3



## SECTION 15: REGULATORY INFORMATION

#### **US Federal Regulations**

Citrus Solvent (AFCO 1005)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard.
	Delayed (chronic) health hazard.
	Fire hazard.

#### d-Limonene (5989-27-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

#### **US State Regulations**

## d-Limonene (5989-27-5)

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

### **Canadian Regulations**

## d-Limonene (5989-27-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision date** : 03/22/2023

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

#### **GHS Full Text Phrases:**

Aspiration 1	Aspiration hazard Category 1
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard Category 1
Flam. Liq. 3	Flammable liquids Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 1A
Skin Sens. 1	Skin sensitisation hazard Category 1
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic reaction
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.

NFPA Health Hazard : 2 - Intense or continued exposure could cause temporary

incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA Fire Hazard : 2 - Materials which must be moderately heated or exposed

to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100°F but

0

below 200°F.

NFPA Reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.

**HMIS III Rating** 

**Health** : 2 Moderate Hazard - Temporary or minor injury may occur.

Flammability : 2 Moderate Hazard - Must be moderately heated or exposed to relatively high temperature

before ignition can occur.

Physical : 0 - Minimal Hazard.

## Party Responsible for the Preparation of This Document

AFCO

800 Development Avenue Chambersburg, PA 17201

T: 800-345-1329

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as quaranteeing any specific property of the product.

North America GHS SDS 2015 (U.S., Can., Mex.)

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