

# SAFETY DATA SHEET

**24-Hour Emergency Number (CHEMTEL)**

USA: 800-255-3924

International: +01-813-248-0585

All non-emergency contacts should be  
directed to Customer Service: 800-821-7556

## GENERAL FORMULA

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: General Formula

Synonyms: None

Recommended Use: Spot and stain removal agent for use in dry cleaning only.

Company Address: 1909 West Oakridge Drive, Albany, GA 31707

Email: sales@adco-inc.com

Web: www.adco-inc.com

### 2. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS No</u>	<u>Percent</u>
Lactic acid	50-21-5	10-15
Pentyl acetate	628-63-7	5-10
Citric acid	77-92-9	<5
Ethylene glycol monobutyl ether	111-76-2	<5
Acetic acid	64-19-7	<5
Methanol	67-56-1	<15



### 3. HAZARDS IDENTIFICATION

WARNING! CAUSES SEVERE SKIN AND EYE IRRITATION. FLAMMABLE LIQUID AND VAPOR.

**Acute Exposure Hazards:**

Inhalation Hazard: Exposure to high concentrations of vapors may cause headaches, nausea, dizziness or nose and throat irritation.

Ingestion Hazard: Causes irritation of the gastrointestinal tract with vomiting.

Skin Contact Hazard: Causes drying or irritation with prolonged or repeated contact with skin.

Eye Contact Hazard: Causes severe irritation if splashed into eyes.

**Chronic Exposure Hazards:** None known.

HMIS Rating: Health – 1    Flammability – 2    Physical Hazard – 0    PPE – User supplied

### 4. FIRST-AID MEASURES

Inhalation: If inhaled, remove to fresh air.

Ingestion: If swallowed, do not induce vomiting.

**Skin Contact:** Remove/Take off immediately all contaminated clothing. Wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.

**Eye Contact:** 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.

## 5. FIRE FIGHTING MEASURES

**Auto-ignition Temperature:** No data available.

**Flash Point (Method):** 137°F (PM)

**Flammable Limits:** No data available.

**Products of Combustion:** Burning may produce toxic and irritating vapors.

**Specific Fire Hazards:** Cool fire-exposed containers with water spray to keep from bursting. .

**Specific Explosion Hazards:** Vapors may travel along floor and form combustible or explosive mixture with air

**Fire Fighting Media:** Dry chemical, carbon dioxide, foam, water fog, or other media for class B fires.

**NFPA Rating:** Health - 1, Flammability - 2, Instability - 0

## 6. ACCIDENTAL RELEASE MEASURES

Avoid breathing vapors. Keep from sources of ignition. Soak up on absorbent material and transfer to containers for disposal.

## 7. HANDLING AND STORAGE

**Precautions:** Keep away from flames and hot surfaces. – No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

**Storage:** Store in a well-ventilated place. Keep cool.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Facilities storing or using the material should be equipped with eyewash station and a safety shower. Use adequate general or local exhaust ventilation.

**Personal Protection:** Wear protective safety glasses or appropriate eye protection. Use appropriate protective gloves and protective clothing to prevent skin exposure.

**Exposure Limits:**

Pentyl acetate – 100 ppm TWA (OSHA)

Ethylene glycol monobutyl ether – 25 ppm TWA (OSHA) Acetic acid – 10 ppm TWA (OSHA)

Methanol – 200 ppm TWA (OSHA)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State and Appearance:** Clear liquid

**Odor:** Sweet

**pH:** 2.5-3 (20:80 in IPA/H<sub>2</sub>O soln.)

**Boiling Point:** 208°F

**Freezing/Melting Point:** No data available

**Decomposition Temperature:** No data available

**Specific Gravity:** 1.120 (Water=1)

**Vapor Density:** Heavier than air

**Vapor Pressure:** No data available

**Viscosity:** 40 sec. Zahn #2

**Solubility:** Miscible

## 10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Use or storage at temperatures above 120°F.

Incompatibility With Various Substances: Strong oxidizers and alkalis.

Hazardous Decomposition Products: Burning may produce toxic and irritating vapors.

Hazardous Polymerization: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, skin absorption, skin contact

### Animal Toxicity:

Lactic acid:

Oral LD50: 3543 mg/kg (rat)

Dermal LD50: 500 mg/kg (rabbit)

Pentyl acetate:

Oral LD50: 6.5 g/kg (rat)

Citric acid:

Oral LD50: 985 mg/kg (rat)

Ethylene glycol monobutyl ether:

Oral LD50: 470 mg/kg (rat)

Dermal LD50: 200 mg/kg (rabbit)

Acetic acid:

Oral LD50: 3.53 g/kg (rat)

Methanol:

Oral LD50: 5628 mg/kg (rat)

Carcinogenicity: None of the ingredients of this mixture have been identified as a carcinogen or probable carcinogen by ACGIH, IARC, or OSHA.

Epidemiology: No known hazard.

Teratogenicity: No known hazard.

Reproductive Effects: No known hazard.

Mutagenicity: No known hazard.

Neurotoxicity: No known hazard.

## 12. ECOLOGICAL INFORMATION



Ecotoxicity: No known hazard.





Environmental Fate: This material is not likely to bioconcentrate.

## 13. DISPOSAL CONSIDERATIONS

Dispose of material and container in municipal landfill in compliance with all local, state and federal regulations.

## 14. TRANSPORT INFORMATION

	UN Number	Proper Shipping Name	Hazard Class	Packing Group	Labels	Other Information
US DOT	UN 2924	Flammable liquids, corrosive, nos (methanol, acetic acid)	3 (8)	III	 	

<i>International (Vessel, IMO)</i>	UN 2924	Flammable liquids, corrosive, nos (methanol, acetic acid)	3 (8)	III	 	IMDG Code Segregation Group:1 Acids
<i>International (Air, IATA)</i>	UN 2924	Flammable liquids, corrosive, nos (methanol, acetic acid)	3 (8)	III	 	

*Note: These shipping designations do not include limited quantity or combustible liquid exceptions that may be allowable. To use these exceptions, see the full text of the applicable regulations.*

## 15. REGULATORY INFORMATION

### US Federal Regulations:

OSHA: None of the ingredients are considered highly hazardous by OSHA.

### Canada:

WHMIS: This product has a WHMIS classification of B2, D2B, and E. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and this MSDS contains all the information required by those regulations.

### DSCL (EEC):

Hazard Symbols: Xn

Risk Phrases: R10 – Flammable; R38 – Irritating to skin.

Safety Phrases: S24/25 – Avoid contact with skin and eyes; S36/37 – Wear suitable protective clothing and gloves.

## 16. OTHER INFORMATION

Last Revised: 12/22/2012

Replaces MSDS of: 4/16/2010

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

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