

# **Safety Data Sheet**

# Acetic Acid Solution, 10%

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Acetic Acid Solution, 10%

Synonyms/Generic Names: None

SDS Number: 3.10

Product Use: For Educational Use Only

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus. WI. 53925

For More Information Contact: Ward's Science

5100 West Henrietta Rd. PO Box 92912-9012 Rochester, NY 14692

(800) 962-2660 (Monday-Friday 7:30-7:00 Eastern Time)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

#### 2. HAZARDS IDENTIFICATION

**OSHA Hazards:** Target organ effect, Corrosive

Target Organs: Teeth, Kidneys

Signal Word: Warning

**Pictograms:** 



#### **GHS Classification:**

Skin irritation	Category 2
Eye irritation	Category 2A
Skin sensitization	Category 1

# GHS Label Elements, including precautionary statements:

Hazard	Statements:

indian a statement.		
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	

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**Precautionary Statements:** 

P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact	
	lenses, if present and easy to do. Continue rinsing.	

#### **Potential Health Effects**

Eyes	Causes eye irritation.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	Causes skin irritation.
Ingestion	May be harmful if swallowed.

#### **NFPA Ratings**

Health	1
Flammability	0
Reactivity	0
Specific hazard	Not Available

#### **HMIS Ratings**

Health	1
Fire	0
Reactivity	0
Personal	Н

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Acetic Acid	9-11	64-19-7	200-580-7	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	60.05 g/mol
Water	Balance	7732-18-5	231-791-2	H₂O	18.00 g/mol

# 4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention if necessary.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not
	breathing, give artificial respiration. Get medical attention if necessary.
Skin	Flush with plenty of water for at least 15 minutes while removing contaminated clothing and
	wash using soap. Get medical attention if necessary.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If
	conscious, wash out mouth with water. Get medical attention if necessary.

# **5. FIRE-FIGHTING MEASURES**

Suitable (and unsuitable) extinguishing media	Product is not flammable. Use appropriate media for adjacent fire. Cool unopened containers with water.
Special protective equipment	Wear self-contained, approved breathing apparatus and full protective
and precautions for firefighters	clothing, including eye protection and boots.
Specific hazards arising from	Emits toxic fumes (carbon oxides) under fire conditions. (See also
the chemical	Stability and Reactivity section).

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

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Methods and materials for	Absorb spill with noncombustible absorbent material, then place in a
containment and cleaning up	suitable container for disposal. Clean surfaces thoroughly with water to
	remove residual contamination. Dispose of all waste and cleanup
	materials in accordance with regulations.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

#### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Ventilation and appropriate grounding of containers.

Component	Exposure Limits	Basis	Entity
Acetic Acid	10 ppm 25 mg/m <sup>3</sup>	PEL	OSHA
	10 ppm 25 mg/m <sup>3</sup>	TLV	ACGIH
	15 ppm 37 mg/m <sup>3</sup>	STEL	ACGIH
	10 ppm 25 mg/m <sup>3</sup>	REL	NIOSH
	15 ppm 37 mg/m <sup>3</sup>	STEL	NIOSH

TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

#### **Personal Protection**

Eyes	Wear chemical safety glasses or goggles.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an
	approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other	Not Available

#### **Other Recommendations**

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear, colorless liquid.
Odor	Slightly vinegar-like.
Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Available
Vapor density	Not Available
Density	Not Available
Solubility (ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

# **10. STABILITY AND REACTIVITY**

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Not Available
Incompatible Materials	Oxidizing agents, soluble carbonates and phosphates, hydroxides, metals, peroxides, permanganates, e.g. potassium permanganate, amines, alcohols.
Hazardous Decomposition Products	Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	Not Available

Carcinogenicity

IARC	No components 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 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 components 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 components of this product present at levels greater than or equal to 0.1% is identified
	as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Reddening, itching, inflammation.
Eyes	Irritation, lacrimation, redness, pain.
Respiratory	Sneezing, coughing, edema of larynx.
Ingestion	Pain of the mouth, throat, nausea, abdominal spasms, vomiting, diarrhea.

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Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Aquatic Vertebrate	Not Available
Aquatic Invertebrate	Not Available
Terrestrial	Not Available

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

#### 13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste products or residues.
Product	Users should review their operations in terms of the applicable federal/national or
Containers	local regulations and consult with appropriate regulatory agencies if necessary
	before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

#### 14. TRANSPORTATION INFORMATION

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

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#### 15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Acetic Acid
SARA 312	Acetic Acid
SARA 313	Not Listed
WHMIS Canada	Not Listed

#### 16. OTHER INFORMATION

Revision	Date
Revision 1	11/27/2012
Revision 2	06/19/2013

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