

**MATERIAL SAFETY DATA SHEET**

MANUFACTURER: Custom Chemical Formulators, Inc  
ADDRESS: 8707 Miller Grove Drive DATE REVISED: 1-26-11  
Santa Fe Springs, CA 90760 PREPARED BY: T. Phillips  
TELEPHONE: 949/757-8500  
(1-800-424-9300 24 Hr. CHEMTREC/ CODE: RANA)

**SECTION 1-Product Identification**

Product Name: 5% Acetic Acid/ Potassium Iodide Solution  
Synonyms: 24165-00, 24165-01  
Part Number: 1700638

**SECTION 2-Composition/Information on Ingredients**

Ingredient(s)	CAS #	Percent	Hazardous
Potassium Iodide	7681-11-0	0.005	No
Acetic Acid	64-19-7	5.2	No
Non-hazardous Ingredients (water)		94.8	No

**SECTION 3-Hazards Identification**

Health Rating: 1  
Flammability Rating: 0  
Reactivity Rating: 0  
Contact Rating: 1  
Lab Protective Equip: gloves, safety goggles, Lab Coat

**SECTION 4-First Aid Measures**

INHALATION: No adverse effects expected. However at larger concentration acetic acid is corrosive and could cause damage to the lining of the nose, throat and lungs.

INGESTION: Swallowing c an cause injury and possibly death. Sore throat, diarrhea, vomiting may occur. Ingestion of as little as 1 ml of 30% acetic acid solution could cause perforation of the esophagus.

SKIN CONTACT: wash with soap and water.

EYE CONTACT: Acetic acid is corrosive, wash out your eyes at an eye station for a minimum of 15 minutes.

**SECTION 5-Fire Fighting Measures**

Fire: Not Combustible  
Explosion: The solution is not an explosion hazard  
Fire Extinguishing Media: Fight Surrounding Fire  
Special Information: N/A

**SECTION 6-Accidental Release Measures**

Wear protective gloves, goggles and dike area. Collect liquid in an appropriate container or absorb with an inert material (vermiculite, dry sand etc.)

**SECTION 7-Handling and Storage**

Keep in a tightly closed container, store in a cool, dry, ventilated area.  
Store at room temperature in a dry area.

#### **SECTION 8-Exposure Controls/Personal Protection**

Airborne Exposure Limits: PEL: 10 ppm(TWA)  
Ventilation System: Not Required, but may be a good idea for people with sensitive lungs, throat and nose.  
Personal Respirators (NIOSH Approved): Not Required  
Skin Protection: Rubber Gloves, lab coat (optional)  
Eye Protection: Safety Goggles

#### **SECTION 9-Physical and Chemical Properties**

Appearance: Clear, colorless liquid  
Odor: identical to vinegar. (vinegar is acetic acid)  
Solubility: Infinitely soluble.  
Specific Gravity: N/E  
pH: around 7  
Boiling Point: 118C  
Melting Point: N/A  
Vapor Density (Air=1): 2.1  
Vapor Pressure (mm Hg): 11 @ 20C (68F)  
Evaporation Rate (BuAc=1): 0.97

#### **SECTION 10-Stability and Reactivity**

**Stability:** Stable  
**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide may form when heated to decomposition. May also release toxic and irritating vapors.  
**Hazardous Polymerization:** Will not occur.  
**Incompatibilities:** Acetic acid is incompatible with chromic acid, nitric acid, ethylene glycol, perchloric acid, phosphorous trichloride, oxidizers, sodium peroxide, strong caustics, most metals (except aluminum), carbonates, hydroxides, oxides and phosphates.  
Conditions to Avoid: Heat and incompatibles.

#### **SECTION 11-Toxicological Information:**

Routes of absorption: Skin, eyes, ingestion, inhalation  
Acetic acid: Oral rat LD50: 3300 mg/kg.  
This is not an anticipated or known carcinogen.

#### **SECTION 12-Ecological Information**

**Environmental Fate:**  
Vapors will degrade over the course of an hour. All other exposures will biodegrade readily

**Environmental Toxicity:**  
for glacial acetic acid:  
EC50 (wheat fumigation) = 23.3mg/m<sup>3</sup>/2-hr, effect: leaf injury  
LC50 (shrimp) = 100-300 mg/l/48-hr  
LC50 (fathead minnow) = 88 mg/l/96-hr

This material may be toxic to aquatic life

#### **SECTION 13-Disposal Considerations**

Material must be stored and disposed of in accordance with all local, state and federal laws. Whatever can not be saved for recovery or neutralized should be sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility.

**SECTION 14-Transport Information**

Not regulated (acetic acid under 10% is not regulated)

**SECTION 15-Regulatory Information**

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
Acetic Acid (64-19-7)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

Ingredient	Korea	DSL	NDSL	Phil.
Acetic Acid (64-19-7)	Yes	Yes	Yes	Yes

-----\Federal, State & International Regulations - Part 1\-----

Ingredient	-SARA 302- RQ	TPQ	-SARA 313- List	Chemical Catg.
Acetic Acid (64-19-7)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----

Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Acetic Acid (64-19-7)	5000	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: Yes  
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No  
Reactivity: yes (Mixture / Liquid)

**Australian Hazchem Code: 2R**

**Poison Schedule: S5**

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**SECTION 16-Other Information**

**Label Hazard Warning:**

DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED OR CONTACTED WITH SKIN. HARMFUL IF INHALED. AFFECTS TEETH.

**NFPA Ratings:** Health:1 Flammability:0 Reactivity:1 Special: (Contact=0)

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Prepared by: Rosemount Analytical Inc.  
Phone Number: (949) 757-8500