Safety Data Sheet

1% Acetic Acid

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name : 1% Acetic Acid
Product Number : 38016SS1B
SDS Date : June 17, 2015

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use : Differentiating solution.
Uses Advised Against : All other uses.

1.3 Details of the Supplier of the Substance or Mixture

Manufacturer/Preparer : Leica Biosystems Richmond, Inc
5205 Route 12
Richmond, IL 60071
800-225-3035
LBSNA-LBS-QA@LEICABIOSYSTEMS.COM

1.4 Emergency Telephone Number

Emergency Spill : 1-800-424-9300 (ChemTrec)
+1 703-527-3887 International calls (call collect)
13 11 26 (Australia 24 Hr Poisons Information Centre)
Other Information : 1-800-225-3035

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008) :

Physical:	Health:	Environmental:
Not hazardous	Skin Irritant – Category 3 Eye Irritant – Category 2A	Not hazardous

2.2 Label Elements

Hazard Pictograms :

Signal Word : WARNING!

Hazard Statements	**:**	H316	Causes mild skin irritation.
		H319	Causes serious eye irritation.
Precautionary Statements	**:**	P264	Wash thoroughly after handling.
		P280	Wear protective gloves, protective clothing, and eye protection.
		P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P332+P313	If skin irritation occurs: Get medical advice/attention.
		P337+P313	If eye irritation occurs: Get medical advice/attention.

2.3 Other Hazards

Other hazards which do not result in classifications **:** None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number / EINECS Number / REACH Reg. Number	% (w/w)	CLP/GHS Classification (1272/2008)
Acetic Acid	64-19-7 200-580-7	<2	Flammable Liquid – Category 3 (H226) Skin Corrosive – Category 1A (H314) Eye Damage – Category 1 (H318)

See Section 16 for full text of GHS and EU Classifications.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye contact **:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting upper and lower eyelids. Get medical attention if irritation persists.

Skin contact **:** In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly after handling. Get medical attention if irritation persists.

Inhalation **:** Call medical doctor or poison control center immediately. Move exposed person to fresh air. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing, such as a collar, tie, belt, or waistband. Get medical attention immediately.

Ingestion **:** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

See Section 11 for more detailed information on health effects.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact **:** Causes eye irritation.

Skin contact **:** May cause mild skin irritation.

Inhalation **:** No known significant effects or critical hazards.

Ingestion **:** No known significant effects or critical hazards.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	Immediate medical attention is generally not required.
Specific treatments	:	No specific treatment.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media	:	Use dry chemical, alcohol foam, carbon dioxide (CO_2), or water spray.
Unsuitable extinguishing media	:	None known.

5.2 Special hazards arising from the substance or mixture

Unusual fire and explosion hazards	:	None known.
Combustion products	:	Oxides of carbon; smoke.

5.3 Advice for fire-fighters

Special protective equipment for fire-fighters	:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.
Special protective action for fire-fighters	:	Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

For emergency responders	:	Wear appropriate protective equipment. Ventilate the area.

6.2 Environmental precautions

Environmental precautions	:	Prevent entry in storm sewers and waterways. Report spill as required by local and federal regulations.

6.3 Methods and materials for containment and cleaning up

For small and large spill	:	Stop spill at the source if it is safe to do so. Absorb with an inert material. Collect into a suitable container for disposal.

6.4 Reference to other sections

Refer to Section 8 for personal protective equipment, and Section 13 for disposal information.

SECTION 7: HANDLING and STORAGE

7.1 Precautions for safe handling

Protective measures	:	Avoid eye and skin contact. Avoid breathing vapors. Use with adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Protect containers from physical damage. Store in a cool area. Keep away from excessive heat and open flames. Keep containers closed when not in use, Store away from bases. Empty containers retain product residues. Do not cut, weld, braze, etc. on or near empty containers. Follow all SDS precautions when handling empty containers.

7.3 Specific end use(s)

Industrial uses : None identified.
Professional uses : Differentiating solution.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Chemical Name	US OEL	EU IOEL	UK OEL	Germany OEL
Acetic Acid	10 ppm TWA OSHA PEL 15 ppm STEL ACGIH TLV	10 ppm TWA	10 ppm TWA 15 ppm STEL	10 ppm TWA 20 ppm STEL

Refer to local or national authority for exposure limits not listed above.

8.2 Exposure controls

Recommended monitoring procedure : Collection on charcoal tubes with analysis by gas chromatography.
Appropriate engineering controls : Use with adequate local exhaust ventilation to maintain exposure levels below the occupational exposure limits.
Personal protective measures
Eye/face protection : Wear safety glasses or chemical goggles.
Skin protection : Impervious clothing as needed to avoid skin contact.
Hands : Impervious gloves recommended (butyl rubber).
Respiratory protection : None needed with adequate ventilation. If the occupational exposure limit is exceeded, use an approved organic vapor respirator. Selection of respiratory protection depends on the contaminant type, form, and concentration. Select in accordance with OSHA 1910.134 or other applicable regulations and good industrial hygiene practice.
Other protection : Suitable washing facilities should be available.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance : Colorless liquid
Odor : Mild vinegar.
Odor threshold : Not applicable
pH : 2.5 – 3.0
Melting/freezing point : Not available
Boiling point : Not available
Flash point : Not available
Lower flammability limit : Not available
Upper flammability limit : Not available
Evaporation rate : Not available
Vapor density (air = 1) : Not available

Vapor pressure	:	Not available
Specific gravity (H_2O = 1)	:	1.00
Relative density	:	1.00
Solubility	:	Complete
Octanol/water partition coefficient	:	Not available
Autoignition temperature	:	Not available
Decomposition temperature	:	Not available
Viscosity	:	Not available
Explosive properties	:	Vapors may be explosive in confined areas
Oxidizing properties	:	None
Molecular formula	:	Not available
Molecular weight	:	Not available

9.2 Other information

No additional information available

SECTION 10: STABILITY and REACTIVITY

10.1 Reactivity	:	This material is not reactive under normal conditions.
10.2 Chemical stability	:	Normally stable.
10.3 Possibility of hazardous reactions	:	Not expected to be reactive.
10.4 Conditions to avoid	:	Avoid heat, sparks, flames, and all other sources of ignition.
10.5 Incompatible materials	:	Strong oxidizing agents.
10.6 Hazardous decomposition products	:	Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Potential health effects:

Eye contact	:	Causes eye irritation with redness, pain, tearing, and swelling.
Skin contact	:	Causes mild irritation. Prolonged or repeated exposure may cause dryness or dermatitis.
Inhalation	:	May cause mild respiratory tract irritation.
Ingestion	:	Swallowing may cause gastrointestinal effects, including gastrointestinal irritation, nausea, and diarrhea.

Acute toxicity:

Product/ingredient name	Result	Species	Dose	Exposure
Acetic Acid	LD50 Oral	Rat	3.31 g/kg	-
	LD50 Dermal	Rabbit	1,060 mg/kg	-

Skin corrosion/irritation	:	No data available for mixture.
Eye damage/irritation	:	No data available for mixture.
Respiratory irritation	:	No data available for mixture.
Respiratory sensitization	:	No data available for mixture.
Skin sensitization	:	No data available for mixture.
Germ cell mutagenicity	:	No data available for mixture.
Carcinogenicity	:	No data available for mixture.
Reproductive Toxicity	:	No data available for mixture.

Specific Target Organ Toxicity:

Single exposure : None known.

Repeat exposure : None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Acetic Acid	LC50 >300 mg/L	Rainbow trout	96 hours

12.2 Persistence and degradability : No data available.

12.3 Bioaccumulative potential : No data available.

12.4 Mobility in soil : No data available.

12.5 Results of PVT and vPvB assessment : No data available.

12.6 Other adverse effects : No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 Packing group	14.5 Environmental hazards
US DOT	Not regulated	-	-	-	-
Canada TDG	Not regulated	-	-	-	-
EU ADR/RID	Not regulated	-	-	-	-
IMDG	Not regulated	-	-	-	-
IATA	Not regulated	-	-	-	-

14.6 Special precautions for user : None.

14.7 Transport in bulk according to Annex III MARPOL 73/78 and the IBC Code : Not determined

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Regulations

OSHA hazard classification	:	Irritant
TSCA Inventory	:	All of the components are listed on the TSCA Inventory.
SARA 302	:	This product does not contain chemicals regulated under SARA Section 302.
SARA 311 Hazard Classification	:	Acute health hazard.
SARA 313	:	This product does not contain chemicals that are regulated under SARA Title III, Section 313.
CERCLA Section 103	:	The RQ for the product, based on the RQ for Acetic Acid (2% maximum) of 5,000 lbs is 250,000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state, and local regulations.
California Prop 65	:	This product contains the following chemical(s) which are known to the state of California to cause cancer, reproductive toxicity, or birth defects: None known.

SECTION 16: OTHER INFORMATION

Revision history : Updated formatting

CLP/GHS Classification and H Phrases for Reference (See Section 3)

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

NFPA Rating	Health: 1	Fire: 0	Instability: 0
HMIS Rating	Health: 1	Fire: 0	Physical Hazard: 0

Notice to reader:
This Safety Data Sheet (SDS) has been prepared in accordance with the Classification, Labelling, and Packaging (CLP) regulation in the EU and the Globally Harmonized System (GHS) (29CFR 1910.1200) in the US. It complies with the requirements of the Canadian Controlled Products Regulations. To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any 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.