

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/11/2013 Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

Product form : Mixture

Product name : Acetic Acid, 11.1% v/v (1+8)

Product code LC10280

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : For laboratory and manufacturing use only.

#### Details of the supplier of the safety data sheet

LabChem Inc

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Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

**Emergency telephone number** 1.4.

**Emergency number** : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

### **SECTION 2: Hazards identification**

### Classification of the substance or mixture

#### **GHS-US** classification

Skin Corr. 1C H314 Eye Dam. 1 H318

### **Label elements**

#### **GHS-US** labelling

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-US) : P260 - Do not breathe mist, vapours, spray

P264 - Wash exposed skin thoroughly after handling

P280 - Wear protective gloves, eye protection

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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

P310 - Immediately call a POISON CENTER or doctor/physician

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/container to comply with local, state and federal regulations

## Other hazards

Other hazards not contributing to the : None.

classification

## **Unknown acute toxicity (GHS-US)**

No data available

# **SECTION 3: Composition/information on ingredients**

### **Substance**

Not applicable

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Full text of H-phrases: see section 16

#### **Mixture** 3.2.

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	88.53	Not classified
Acetic Acid	(CAS No) 64-19-7	11.47	Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318

# **SECTION 4: First aid measures**

### **Description of first aid measures**

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).

Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a First-aid measures after inhalation position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to First-aid measures after eye contact do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or

doctor/physician.

#### Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after eye contact : Causes serious eye damage.

## Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

# **SECTION 5: Firefighting measures**

# **Extinguishing media**

First-aid measures after ingestion

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

# Special hazards arising from the substance or mixture

Reactivity : Thermal decomposition generates : Corrosive vapours.

# Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Avoid (reject) fire-fighting water to enter environment.

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

# **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves. Protective clothing.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

· Ventilate area **Emergency procedures** 

### **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

# Methods and material for containment and cleaning up

Methods for cleaning up Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

# Reference to other sections

See Heading 8. Exposure controls and personal protection.

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# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of

vapour. Do not breathe mist, vapours, spray.

Hygiene measures : Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

# 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong oxidizers. metals. Strong bases.

Incompatible products : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Acetic Acid (64-19-7)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	10 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	25 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm

#### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity

of any potential exposure.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or face shield.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour Colourless. Odour Vinegar odour. Odour threshold No data available No data available рΗ Relative evaporation rate (butylacetate=1) : No data available Melting point No data available Freezing point : No data available : No data available Boiling point Flash point No data available Self ignition temperature : No data available Decomposition temperature No data available Flammability (solid, gas) : No data available No data available Vapour pressure Relative vapour density at 20 °C No data available Relative density : No data available Density 1.01 g/ml Solubility Soluble in water. Log Pow : No data available

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Log Kow : No data available

Viscosity, kinematic : 1.2 cSt

Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Thermal decomposition generates: Corrosive vapours.

### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

## 10.5. Incompatible materials

Strong oxidizers. metals. Strong bases.

# 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapours.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

Water (7732-18-5)		
	LD50 oral rat	≥ 90000 mg/kg
	Skin corrosion/irritation	: Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/injuries after eye contact : Causes serious eye damage.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Acetic Acid (64-19-7)	
LC50 fishes 1	75 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	47 mg/l (24 h; Daphnia magna; Not neutralized)
EC50 other aquatic organisms 1	> 5000 mg/l (5 h; Activated sludge)
LC50 fish 2	94 mg/l (96 h; Oryzias latipes)
EC50 Daphnia 2	95 mg/l (24 h; Daphnia magna; Static system)

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Acetic Acid (64-19-7)	
TLM fish 1	100 ppm (96 h; Carassius auratus)
Threshold limit algae 1	90 mg/l (192 h; Microcystis aeruginosa; Neutralized)
Threshold limit algae 2	4000 mg/l (192 h; Scenedesmus quadricauda; Neutralized)

#### 12.2. Persistence and degradability

Acetic Acid, 11.1% v/v (1+8)	
Persistence and degradability	Not established.
Acetic Acid (64-19-7)	
Persistence and degradability	Readily biodegradable in water. Inherently biodegradable. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.6 - 0.74 g O <sup>2</sup> /g substance
Chemical oxygen demand (COD)	1.03 g O²/g substance
ThOD	1.07 g O²/g substance
BOD (% of ThOD)	0.56 - 0.69 % ThOD

# Water (7732-18-5)

Persistence and degradability Not established.

2.3. Bioaccumulative potential	
Acetic Acid, 11.1% v/v (1+8)	
Bioaccumulative potential	Not established.
Acetic Acid (64-19-7)	
Log Pow	-0.31 (Experimental value)
Bioaccumulative potential	Bioaccumulation: not applicable.
Water (7732-18-5)	
Bioaccumulative potential	Not established.

#### 12.4. **Mobility in soil**

Acetic Acid (64-19-7)	
Surface tension	0.028 N/m (20 °C)

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

In accordance with DOT

: UN2790 Acetic acid solution (with more than 10 percent and less than 50 percent acid, by mass), Transport document description

> 8, III : 2790 : UN2790

**DOT Proper Shipping Name** : Acetic acid solution

with more than 10 percent and less than 50 percent acid, by mass

Department of Transportation (DOT) Hazard

Classes

UN-No.(DOT)

DOT NA no.

: 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT) : 8 - Corrosive substances

Packing group (DOT) : III - Minor Danger

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DOT Special Provisions (49 CFR 172.102)

: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids

with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table

2 for UN2672).

T4 - 2.65 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature

during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail : 5 L
(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

**Additional information** 

Other information : No supplementary information available.

**ADR** 

Transport document description

Transport by sea

No additional information available

Air transport

No additional information available

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

Acetic Acid, 11.1% v/v (1+8)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

	Acetic Acid (64-19-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
RQ (Reportable quantity, section 304 of EPA's 5000 lb		5000 lb
	List of Lists):	

### Water (7732-18-5)

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

# 15.2. International regulations

#### CANADA

CANADA		
Acetic Acid, 11.1% v/v (1+8)		
WHMIS Classification	Class E - Corrosive Material	
Acetic Acid (64-19-7)		
WHMIS Classification	Class B Division 3 - Combustible Liquid Class E - Corrosive Material	
Water (7732-18-5)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	

# **EU-Regulations**

No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

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# Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

No additional information available

# **SECTION 16: Other information**

Other information : None.

Full text of H-phrases: see section 16:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
H226	Flammable liquid and vapour
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

NFPA health hazard : 3 - Short exposure could cause serious temporary or

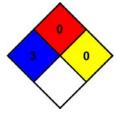
residual injury even though prompt medical attention was

given.

NFPA fire hazard : 0 - Materials that will not burn.

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

and are not reactive with water.



# **HMIS III Rating**

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

Personal Protection : H

SDS US (GHS HazCom 2012)

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