# SAFETY DATA SHEET



Revision Date 01-Jun-2018 WAI1 - AGHS - OSHA Revision Number 3

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Product Name Acid Reagent

Product No 977011

Pure substance/mixture Mixture

Contains Acetic Acid

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

Recommended Use Use as laboratory reagent

Uses advised against No Information available

Manufacturer, Importer, Supplier Thermo Fisher Scientific©

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Made in USA

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**CHEMTREC®** 

Within USA and Canada: 1-800-424-9300 Outside USA and Canada: 1-703-527-3887

(collect calls accepted)

# 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 1 A
Serious Eye Damage/Eye Irritation	Category 1

#### **Label Elements**

Contains Acetic Acid

**Emergency Overview** 

#### Danger

#### Hazard Statements

Causes severe skin burns and eye damage



Appearance Clear

Physical State Liquid

Odor vinegar-like

### **Precautionary Statements**

#### Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

#### Response

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see supplemental instructions on the administration of antidotes on this label)

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

### **Storage**

Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

No information available

### Other Information

May be harmful in contact with skin
Harmful to aquatic life with long lasting effects
Harmful to aquatic organisms

Harmful to aquatic organisms

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Water	7732-18-5	40 - 50%
Acetic Acid	64-19-7	30 - 40%
Sodium Acetate	127-09-3	10 - 20%

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

### First aid measures

General Advice Use first aid treatment according to the nature of the injury. Get medical attention

immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention.

**Skin Contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Take off

contaminated clothing and shoes immediately. In case of skin reactions, consult a

physician.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms

occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Call a

physician or Poison Control Center immediately.

**Self-Protection of the First Aider** Use personal protective equipment. See section 8 for more information. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory

medical device.

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

Most important symptoms and

effects

No information available

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

Notes to Physician Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **Unsuitable Extinguishing Media**

No information available

#### Specific Hazards Arising from the Chemical

No information available.

### **Explosion Data**

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**Personal Precautions**Use personal protective equipment. For further specification, refer to section 8 of the SDS.

Evacuate personnel to safe areas.

**Environmental Precautions**Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in

low areas.

### Methods and Material for Containment and Cleaning Up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

# 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Handling To avoid risks to human health and the environment, comply with the instructions for use

Wear personal protective equipment

Avoid breathing dust/fume/gas/mist/vapors/spray Ensure adequate ventilation, especially in confined areas

### Conditions for Safe Storage, Including any Incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place

Store at room temperature in the original container

Keep away from direct sunlight

Incompatible Products No information available

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetic Acid	TWA: 10 ppm	(Vacated) TWA: 10 ppm	IDLH: 50 ppm
64-19-7	STEL: 15 ppm	(Vacated) TWA: 25 mg/m <sup>3</sup>	TWA: 10 ppm
		TWA: 10 ppm	TWA: 25 mg/m <sup>3</sup>
		TWA: 25 mg/m <sup>3</sup>	STEL: 15 ppm
			STEL: 37 mg/m <sup>3</sup>

### **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems

# Individual protection measures, such as personal protective equipment

**Eye/face Protection** Wear chemical splash goggles and face shield. If splashes are likely to occur, wear:.

Face-shield.

**Skin and Body Protection** Wear protective gloves/clothing.

**Respiratory Protection**None under normal use conditions. In case of inadequate ventilation wear respiratory

protection.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid
Appearance Clear
Odor vinegar-like

Odor Threshold No information available

**pH** 4.2

PH Range No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point/freezing pointNo information availableBoiling Point/Range100 °C / 212 °F

Flash Point (High in °C) N/A

**Evaporation Rate**Flammability (solid, gas)
No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor Density

No information available
No information available
No information available

Specific Gravity 1.117

Water Solubility Soluble in water

Solubility in other solvents
Partition coefficient
No information available
No information available

Autoignition Temperature

Decomposition TemperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

**Other Information** 

Softening PointNo information availableMolecular WeightNo information available

VOC Content(%) 38.4

DensityNo Information availableBulk DensityNo information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No Information available

# **Chemical Stability**

Stable under normal conditions

#### **Possibility of Hazardous Reactions**

None under normal processing

### **Conditions to Avoid**

Extremes of temperature and direct sunlight.

#### **Incompatible Materials**

No information available

### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors.

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Inhalation** No information available

**Eye Contact** No information available

Skin Contact No information available

**Ingestion** No information available

### Information on Toxicological Effects

Symptoms No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available

Mutagenic Effects No information available

**Carcinogenicity** No information available.

Reproductive Effects No information available

STOT - single exposure No information available

STOT - repeated exposure No information available

Aspiration hazard No information available

Numerical measures of toxicity - Product Information

### The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 6332 mg/kg ATEmix (dermal) 2652 mg/kg ATEmix (inhalation-dust/mist) 29.7 mg/L

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component	Freshwater Algae	Freshwater Fish	Water Flea
Acetic Acid	-	LC50: = 75 mg/L, 96h static	EC50: = 65 mg/L, 48h Static
64-19-7		(Lepomis macrochirus)	(Daphnia magna)
		LC50: = 79 mg/L, 96h static	EC50: = 47 mg/L, 24h (Daphnia

		(Pimephales promelas)	magna)
Sodium Acetate 127-09-3	-	LC50: = 5000 mg/L, 24h static (Lepomis macrochirus)	EC50: > 1000 mg/L, 48h (Daphnia magna)

### Persistence and Degradability

No information available

### **Bioaccumulation/ Accumulation**

No information available

### **Mobility**

.

Component	log Pow
Acetic Acid	-0.31
64-19-7	

### Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal.

Component	CAWAST
Acetic Acid	Toxic
64-19-7	Corrosive
	Ignitable

# 14. TRANSPORT INFORMATION

DOT

**UN-No** UN2790

Proper Shipping Name ACETIC ACID SOLUTION

Hazard Class 8
Packing Group

Reportable Quantity (RQ): (Acetic Acid: RQ (kg)= 2270.00)

Special Provisions A3, A6, A7, A10, B2, IB2, T7, TP2

Shipping Description UN2790, ACETIC ACID SOLUTION, 8, II

Emergency Response Guide 153

Number

**ICAO** 

**UN-No** UN2790

Proper Shipping Name ACETIC ACID SOLUTION

Hazard Class 8
Packing Group ||

**Description** UN2790, ACETIC ACID SOLUTION, 8, II

IATA

**UN-No** UN2790

Proper Shipping Name ACETIC ACID SOLUTION

Hazard Class

Packing Group II ERG Code 8L

Description UN2790, ACETIC ACID SOLUTION, 8, II

IMDG/IMO

**UN-No** UN2790

Proper Shipping Name ACETIC ACID SOLUTION

Hazard Class
Packing Group

**EmS No.** F-A, S-B

**Description** UN2790, ACETIC ACID SOLUTION, 8, II

# 15. REGULATORY INFORMATION

**International Inventories** 

**USINV** Complies Complies **CANINV EINECS/ELINCS** Complies **ENCS** Complies Complies **IECSC KECL** Complies Complies **PICCS AICS** Complies

Legend:

USINV/ TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

CANINV/ DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### U.S. Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

#### **CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Acetic Acid	5000 lb	-	-	X
64-19-7				

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs	RQ
Acetic Acid	5000 lb	<del>-</del>	RQ 5000 lb final RQ
64-19-7			RQ 2270 kg final RQ

Product NameRevision DateAcid Reagent01-Jun-2018

### U.S. State Regulations

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

#### U.S. EPA Label Information

No information available

# **16. OTHER INFORMATION**

Prepared By Regulatory Affairs

Prepared For Thermo Fisher Scientific Inc.©

Issue Date No information available

Revision Date 01-Jun-2018

**Reason for revision** SDS sections updated.

#### **Disclaimer**

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**End of Safety Data Sheet**