

# **SAFETY DATA SHEET**

15200908

Revision Date 29-Jul-2016 WAI1 - AGHS - OSHA Revision Number 8

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

**Product Identifier** 

Product Name TISAB II with CDTA

Product No 940909

Pure substance/mixture Mixture

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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# 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### **Label Elements**

### **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Clear Physical State Liquid Odor vinegar-like

### **Precautionary Statements**

#### Hazards not otherwise classified (HNOC)

No information available

### Other Information

No information available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Water	7732-18-5	75 - 90%
Sodium Acetate	127-09-3	1 - 10%
Sodium Chloride	7647-14-5	1 - 10%
trans-1,2-Diaminocyclohexane-Tetraacetic Acid Monohydrate (CDTA)	125572-95-4	0.1 - 1.0%
Acetic Acid	64-19-7	0.1 - 1.0%

<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. Obtain 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.

Protection of First-aiders

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/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** Safety glasses with side-shields.

**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 Range** 4.5-6.0

Property Values Remarks • Method

Melting point/freezing point

Boiling Point/Range

No information available
No information available

Flash Point (High in °C) N/A

Evaporation Rate No information available Flammability (solid, gas) No information available Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor Density
Specific Gravity
No information available
No information available
No information available
No information available

Specific GravityNo information availabWater SolubilitySoluble 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 Point
Molecular Weight
VOC Content(%)
Density
No 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

Component LD50 Oral		LD50 Dermal	LC50 Inhalation
Water 7732-18-5	LD50 > 90 mL/kg (Rat)	-	-
Sodium Acetate 127-09-3	LD50 = 3530 mg/kg (Rat)	LD50 > 10 g/kg (Rabbit)	LC50 > 30 g/m³(Rat)1 h
Sodium Chloride 7647-14-5	LD50 = 3 g/kg ( Rat )	LD50 > 10 g/kg (Rabbit)	LC50 > 42 g/m³(Rat)1 h
Acetic Acid 64-19-7	LD50 = 3310 mg/kg (Rat)	LD50 = 1060 mg/kg ( Rabbit )	LC50 = 11.4 mg/L (Rat) 4 h

### 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)
 23440 mg/kg

 ATEmix (dermal)
 71500 mg/kg

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

0.9% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component	Freshwater Algae	Freshwater Fish	Water Flea
Sodium Acetate 127-09-3	-	LC50: = 5000 mg/L, 24h static (Lepomis macrochirus)	EC50: > 1000 mg/L, 48h (Daphnia magna)
Sodium Chloride 7647-14-5	-	LC50: 4747 - 7824 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: 6420 - 6700 mg/L, 96h static (Pimephales promelas) LC50: = 7050 mg/L, 96h semi-static (Pimephales promelas) LC50: 6020 - 7070 mg/L, 96h static (Pimephales promelas) LC50: = 12946 mg/L, 96h static (Lepomis macrochirus) LC50: 5560 - 6080 mg/L, 96h flow-through (Lepomis macrochirus)	<b>Q</b> ,
Acetic Acid 64-19-7	-	LC50: = 75 mg/L, 96h static (Lepomis macrochirus) LC50: = 79 mg/L, 96h static (Pimephales promelas)	EC50: = 47 mg/L, 24h (Daphnia magna) EC50: = 65 mg/L, 48h Static (Daphnia magna)

#### Persistence and Degradability

No information available

# **Bioaccumulation/ Accumulation**

No information available

#### Mobility

No information available.

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

### 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

DOTNot regulatedICAONot regulatedIATANot regulatedIMDG/IMONot regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

USINV Complies
CANINV Complies
EINECS/ELINCS Does not Comply

ENCS
Does not Comply
IECSC
Does not Comply
KECL
Does not Comply
PICCS
Does not Comply
Does not Comply
Does not Comply
AICS
Does not Comply

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

Acute Health Hazard No Chronic Health Hazard No

Fire Hazard No Sudden Release of Pressure Hazard No Reactive Hazard No

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

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

### **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	-	RQ 5000 lb final RQ
64-19-7			RQ 2270 kg final RQ

### **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

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

Component	New Jersey	Massachusetts	Pennsylvania
Water	=	-	X
7732-18-5			
Acetic Acid	X	X	X
64-19-7			

#### U.S. EPA Label Information

No information available

# 16. OTHER INFORMATION

Prepared By Environmental, Health and Safety

Prepared For Thermo Fisher Scientific Inc.©

Issue Date No information available

**Revision Date** 29-Jul-2016

**Reason for revision** SDS sections updated.

### **Disclaimer**

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**End of Safety Data Sheet**