

SAFETY DATA SHEET

Revision Date 12-Feb-2016 WAI1 - AGHS - OSHA Revision Number 2

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

Product Identifier

Product Name 10ppm Fluoride with TISAB II Standard

Product No 040908

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

Water and Lab Products

22 Alpha Road

Chelmsford, MA 01824, USA

1-978-232-6000

E-mail address <u>info.water@thermo.com</u>

Made in USA

<u>Emergency Telephone</u> 24 Hour Emergency Phone Number

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

Label Elements

Emergency Overview

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

Appearance Blue Physical State Liquid Odor vinegar-like

Precautionary Statements

Do not handle until all safety precautions have been read and understood

Storage

Store in a dry place

Hazards not otherwise classified (HNOC)

No information available

Other Information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %	Trade Secret
Water	7732-18-5	>90.0%	*
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%	*
Sodium Fluoride	7681-49-4	<0.1%	*
FD & C Blue #1	3844-45-9	<0.1%	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

10ppm Fluoride with TISAB II Standard

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 PrecautionsBeware of vapors accumulating to form explosive concentrations. Vapors can accumulate

in low areas.

10ppm Fluoride with TISAB II Standard

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Methods and Material for Containment and Cleaning Up

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

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

7. HANDLING AND STORAGE

Precautions for Safe Handling

HandlingTo 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 ³	TWA: 10 ppm
		TWA: 10 ppm	TWA: 25 mg/m ³
		TWA: 25 mg/m ³	STEL: 15 ppm
			STEL: 37 mg/m ³
Sodium Fluoride	TWA: 2.5 mg/m ³	(Vacated) TWA: 2.5 mg/m ³	IDLH: 250 mg/m ³
7681-49-4			TWA: 2.5 mg/m ³

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 ProtectionNone 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

Product Name

10ppm Fluoride with TISAB II Standard

Remarks • Method

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Appearance Blue Odor vinegar-like

Odor Threshold No information available

PH Range 2.3 - 5.3

<u>Property</u> <u>Values</u>

Melting point/freezing pointNo information availableBoiling Point/Range~ 100 °C / 212 °F

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
Water Solubility

No information available
No information available
No information available
No information available
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 availableVOC Content(%)No information availableDensityNo 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

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Information on likely routes of exposure

Inhalation No information available

Eye Contact No information available

Skin ContactNo 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/m ³ (Rat) 1 h
Sodium Chloride 7647-14-5	LD50 = 3 g/kg (Rat)	LD50 > 10 g/kg (Rabbit)	LC50 > 42 g/m ³ (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
Sodium Fluoride 7681-49-4	LD50 = 52 mg/kg (Rat)	LD50 = 175 mg/kg (Rat)	-

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

1% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component	Freshwater Algae	Freshwater Fish	Water Flea
Sodium Acetate	-	LC50: = 5000 mg/L, 24h static	EC50: > 1000 mg/L, 48h (Daphnia
127-09-3		(Lepomis macrochirus)	magna)

72 Tob 20 To

Cadima Oblasida		LOCO: 4747 7004/L OCh	ECEO: 040.7 400.0 // 40h
Sodium Chloride	-	LC50: 4747 - 7824 mg/L, 96h	EC50: 340.7 - 469.2 mg/L, 48h
7647-14-5		flow-through (Oncorhynchus	Static (Daphnia magna)
		mykiss)	EC50: = 1000 mg/L, 48h (Daphnia
		LC50: 6420 - 6700 mg/L, 96h	magna)
		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)	
Acetic Acid	-	LC50: = 75 mg/L, 96h static	EC50: = 47 mg/L, 24h (Daphnia
64-19-7		(Lepomis macrochirus)	magna)
		LC50: = 79 mg/L, 96h static	EC50: = 65 mg/L, 48h Static
		(Pimephales promelas)	(Daphnia magna)
		(*	(= =p
Sodium Fluoride	EC50: = 850 mg/L, 72h static	LC50: = 180 mg/L, 96h semi-static	EC50: = 338 mg/L, 48h (Daphnia
7681-49-4	(Desmodesmus subspicatus)	(Pimephales promelas)	magna)
	EC50: = 272 mg/L, 96h	LC50: 38 - 68 mg/L, 96h static	EC50: = 98 mg/L, 48h Static
	(Pseudokirchneriella subcapitata)	(Oncorhynchus mykiss)	(Daphnia magna)
	(1 seadorn of mericia subsapitata)	LC50: = 830 mg/L, 96h semi-static	(Baprinia magna)
		(Lepomis macrochirus)	
		LC50: > 530 mg/L, 96h (Lepomis	
		macrochirus)	
		macrocrinus)	

Persistence and Degradability

No information available

Bioaccumulation/ Accumulation

No information available

Mobility

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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
Sodium Fluoride	Toxic
7681-49-4	

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14. TRANSPORT INFORMATION

DOTNot regulatedICAONot regulatedIATANot regulated

15. REGULATORY INFORMATION

International Inventories

IMDG/IMO

USINV Complies Complies

EINECS/ELINCS

ENCS

Does not Comply

IECSC

Does not Comply

Does not Comply

PICCS

Does not Comply

AICS

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

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

Not regulated

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
IECSC - Various Existing and Evaluated 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 HazardNoChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Acetic Acid 64-19-7	5000 lb	-	-	X
Sodium Fluoride 7681-49-4	1000 lb	-	-	Х

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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
Sodium Fluoride	1000 lb	-	RQ 1000 lb final RQ
7681-49-4			RQ 454 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 7732-18-5	-	-	X
Acetic Acid 64-19-7	X	X	X
Sodium Fluoride 7681-49-4	X	X	X
FD & C Blue #1 3844-45-9	-	X	-

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 12-Feb-2016

Reason for revision SDS sections updated.

Disclaimer

Product No 040908

IMPORTANT: The information contained in this SDS is correct to the best of our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties of any kind as to the accuracy or completeness of the information contained herein or the merchantability or fitness of the product or this information for a particular purpose. It is the responsibility of each individual buyer/user to determine the suitability of this information and the product for its intended purposes. Product sales are subject to Thermo Fisher Scientifics standard terms and conditions of sale. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions, or is altered in any way. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable government requirements. Since conditions of use of the product are not under direct control of Thermo Fisher Scientific, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Thermo Fisher Scientific will not be liable for any injuries or damages resulting from handling, use, misuse or contact with the product.

End of Safety Data Sheet

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Document No.