

# Safety Data Sheet

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

Date of issue: 10/01/2014 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Product name : Fluoride Standard, 1 ppm, Premixed with TISAB II

Product code : LC14620

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

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

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

LabChem Inc

Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court

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

1.4. Emergency telephone number

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

: None.

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

#### 2.1. Classification of the substance or mixture

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

Not classified

#### 2.2. Label elements

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

No labelling applicable

## 2.3. Other hazards

Other hazards not contributing to the

classification

2.4. Unknown acute toxicity (GHS-US)

No data available

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

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	91.849	Not classified
Sodium Chloride	(CAS No) 7647-14-5	2.9	Not classified
Acetic Acid	(CAS No) 64-19-7	2.85	Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318
Sodium Hydroxide	(CAS No) 1310-73-2	2.2	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
CDTA	(CAS No) 125572-95-4	0.2	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Sodium Fluoride	(CAS No) 7681-49-4	0.001	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 3, H402

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#### **SECTION 4: First aid measures**

#### 4.1. 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).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation

occurs: Get medical advice/attention. Remove affected clothing and wash all exposed skin area

with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

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

None.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

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

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

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable. Explosion hazard : Not applicable.

Reactivity : None.

## 5.3. Advice for firefighters

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

chemical fire. Prevent fire-fighting water from entering 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

General measures : None.

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

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

#### 6.3. 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.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### 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.

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#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong oxidizers.

Incompatible materials : 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

Sodium Hydroxide (1310-73-2)		
USA ACGIH Ceiling (mg/m³) 2 mg/m³		
USA OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m³

Sodium Fluoride (7681-49-4)		
USA ACGIH	ACGIH TWA (mg/m³)	2.5 mg/m³

#### 8.2. Exposure controls

Solubility

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 safety glasses.

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

Appearance : Clear, colorless liquid.

Colour : Colourless
Odour : None

Odour threshold : No data available

pH : 5.3 - 5.5

: No data available Relative evaporation rate (butylacetate=1) Melting point : No data available Freezing point : No data available No data available Boiling point Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature No data available Flammability (solid, gas) : No data available Vapour pressure No data available Relative vapour density at 20 °C : No data available Relative density : No data available

Water: Solubility in water of component(s) of the mixture :

• Acetic Acid: Complete • Sodium Hydroxide: 42 g/100ml • Sodium Fluoride: 4 g/100ml

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Soluble in water.

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Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : Not applicable.
Oxidising properties : None.

Explosive limits : No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

None.

## 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.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

Sodium Hydroxide (1310-73-2)	
LD50 dermal rabbit	1350 mg/kg (Rabbit; Literature)
ATE US (dermal)	1350 mg/kg bodyweight

Sodium Chloride (7647-14-5)	
LD50 oral rat	3000 mg/kg
LD50 dermal rat	10000 mg/kg
ATE US (oral)	3000 mg/kg bodyweight
ATE US (dermal)	10000 mg/kg bodyweight
ATE US (dust,mist)	10500 mg/l/4h

Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
ATE US (oral)	90000 mg/kg bodyweight

Sodium Fluoride (7681-49-4)	
LD50 oral rat	52 mg/kg (Rat)
ATE US (oral)	52 mg/kg bodyweight

Skin corrosion/irritation : Not classified

pH: 5.3 - 5.5

Serious eye damage/irritation : Not classified

pH: 5.3 - 5.5

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

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Sodium Fluoride (7681-49-4)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

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 irritation.

# **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)
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)

Sodium Hydroxide (1310-73-2)	
LC50 fishes 1	45.4 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Solution >=50%)
EC50 Daphnia 1	40.4 mg/l (48 h; Ceriodaphnia sp.; Nominal concentration)
LC50 fish 2	189 mg/l (48 h; Leuciscus idus)
TLM fish 1	99 mg/l (48 h; Lepomis macrochirus)
TLM fish 2	125 ppm (96 h; Gambusia affinis)

Sodium Chloride (7647-14-5)	
LC50 fishes 1	7650 mg/l
EC50 Daphnia 1	1000 mg/l

Sodium Fluoride (7681-49-4)		
LC50 fishes 1	> 530 mg/l (96 h; Lepomis macrochirus; Lethal)	
EC50 Daphnia 1	98 mg/l (48 h; Daphnia magna)	
LC50 fish 2	74 mg/l (96 h; Pisces)	
EC50 Daphnia 2	338 mg/l (48 h; Daphnia magna)	
TLM fish 1	419 ppm (96 h; Gambusia affinis)	
Threshold limit algae 1	249 mg/l (Scenedesmus quadricauda; Toxicity test)	

# 12.2. Persistence and degradability

Biochemical oxygen demand (BOD)

Chemical oxygen demand (COD)

Fluoride Standard, 1 ppm, Premixed with TISAB II		
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 /g substance	
Chemical oxygen demand (COD)	1.03 g O /g substance	
ThOD	1.07 g O /g substance	
BOD (% of ThOD)	0.56 - 0.69 % ThOD	
Sodium Hydroxide (1310-73-2)		
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.	

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Not applicable

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Sodium Hydroxide (1310-73-2)		
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
Sodium Chloride (7647-14-5)		
Persistence and degradability	Not established.	
Water (7732-18-5)		
Persistence and degradability	Not established.	
Sodium Fluoride (7681-49-4)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	

# 12.3. Bioaccumulative potential

Fluoride Standard, 1 ppm, Premixed with TISAB II		
Bioaccumulative potential	Not established.	
Acetic Acid (64-19-7)		
Log Pow	-0.31 (Experimental value)	
Bioaccumulative potential	Bioaccumulation: not applicable.	
Sodium Hydroxide (1310-73-2)		
Bioaccumulative potential	Bioaccumulation: not applicable.	
Sodium Chloride (7647-14-5)		
Bioaccumulative potential	Not established.	
Water (7732-18-5)		
Bioaccumulative potential	Not established.	
Sodium Fluoride (7681-49-4)		
BCF fish 1	2.3 Salmo gairdneri (Oncorhynchus mykiss)	
	5 ( ) )	

## 12.4. Mobility in soil

Acetic Acid (64-19-7)		
Surface tension 0.028 N/m (20 °C)		
Sodium Fluoride (7681-49-4)		
Ecology - soil	Toxic to flora.	

### 12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

## 13.1. 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 Not regulated for transport

**Additional information** 

Other information : No supplementary information available.

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#### **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 (64-19-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not listed on the United States SARA Section 313		
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	5000 lb	
Sodium Hydroxide (1310-73-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	1000 lb	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
Sodium Fluoride (7681-49-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not listed on the United States SARA Section 313		
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	1000 lb	

# 15.2. International regulations

CANADA		
Fluoride Standard, 1 ppm, Premixed with TISAB II		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Acetic Acid (64-19-7)		
Listed on the Canadian DSL (Domestic Sustar	nces List)	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class E - Corrosive Material	
Sodium Hydroxide (1310-73-2)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class E - Corrosive Material	
Sodium Chloride (7647-14-5)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Water (7732-18-5)		
Listed on the Canadian DSL (Domestic Sustar	nces List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Sodium Fluoride (7681-49-4)		
Listed on the Canadian DSL (Domestic Sustar	nces List)	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

## **EU-Regulations**

No additional information available

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

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

Not classified

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#### 15.2.2. National regulations

## Acetic Acid (64-19-7)

Listed on the Canadian IDL (Ingredient Disclosure List)

#### Sodium Fluoride (7681-49-4)

Listed on the Canadian IDL (Ingredient Disclosure List)

#### 15.3. US State regulations

# **SECTION 16: Other information**

:

Other information : None.

#### Full text of H-phrases: see section 16:

t of 11 philades. See Section 16.	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Aquatic Acute 3	Hazardous to the aquatic environment — Acute Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3,
	Respiratory tract irritation
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H402	Harmful to aquatic life

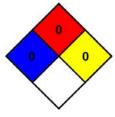
NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard

beyond that of ordinary combustible materials.

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 : 0 Minimal Hazard - No significant risk to health

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

Personal Protection : B

SDS US (GHS HazCom 2012)

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