

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 subs	stance/mixture and of the com	pany/undertakin	g
1.1. Product identifier			
Product form	: Mixture		
Product name	: Fluoride Standard, 2 ppm, Premixed	with TISAB II	
Product code	: LC14630		
1.2. Relevant identified uses of the subst	ance or mixture and uses advised aga	ainst	
Use of the substance/mixture	: For laboratory and manufacturing use	e only.	
1.3. Details of the supplier of the safety of	lata sheet		
LabChem Inc Jackson's Pointe Commerce Park Building 1000, 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	
SECTION 2: Hazards identification			
2.1. Classification of the substance or m	ixture		
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	: None.		
2.4. Unknown acute toxicity (GHS-US)			
No data available			
SECTION 3: Composition/information	n on ingredients		
3.1. Substance			
Not applicable			
3.2. Mixture			
Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	91.848	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	0.002	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	s, 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 a	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 subs	stance or mixture	
Fire hazard	: Not flammable.	
Explosion hazard	: Not applicable.	
	: 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 measured	Ires	
6.1. Personal precautions, protective equ		
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.	
5		
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Notify a	authorities if liquid enters sewers or public waters.	
6.3. Methods and material for containmen	t 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 p	rotection.	
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 stora	ge, including any incompatibilities
Storag	e conditions	: Keep container closed when not in use.
Incom	patible products	: Strong oxidizers.
Incom	patible materials	: Sources of ignition. Direct sunlight.
73	Specific and 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/m ³)	25 mg/m³	
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm	
Sodium Hydroxide (1310-73-2)			

USA ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m ³

Sodiu	um Fluoride (7681-49-4)		
USA /	ACGIH	ACGIH TWA (mg/m³)	2.5 mg/m³
0.0	Exposure controls		1

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: Ph	ysical and chemi	cal properties
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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
рН	: 5.3 - 5.5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
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
Solubility	 Soluble in water. 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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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	

Other information 9.2.

No additional information available

SECT	SECTION 10: Stability and reactivity		
10.1.	Reactivity		
None.			
10.2.	Chemical stability		
Stable ι	under normal conditions.		
10.3.	Possibility of hazardous reactions		
Not esta	ablished.		
10.4.	Conditions to avoid		
Direct s	unlight. Extremely high or low temperatures.		
10.5.	Incompatible materials		
Strong	oxidizers.		
10.6.	Hazardous decomposition products		
Carbon	rbon monoxide. Carbon dioxide. Nitrogen oxides.		
SECT	SECTION 11: Toxicological information		
11.1.	Information on toxicological effects		
Acute to	Acute toxicity : Not classified		

Sodium Hydroxide (1310-73-2)	
1350 mg/kg (Rabbit; Literature)	
1350 mg/kg bodyweight	
3000 mg/kg	
10000 mg/kg	
3000 mg/kg bodyweight	
10000 mg/kg bodyweight	
10500 mg/l/4h	
≥ 90000 mg/kg	
90000 mg/kg bodyweight	
52 mg/kg (Rat)	
52 mg/kg bodyweight	
: Not classified	
pH: 5.3 - 5.5	
: Not classified	
pH: 5.3 - 5.5	
: Not classified	
: Not classified	
: 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	n			
12.1. Toxicity				
Acetic Acid (64-19-7)				
LC50 fishes 1	75 mg/l (96 h; Lepomis macrochirus)			

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)
2.2. Persistence and degradability	
Fluoride Standard, 2 ppm, Premixed with	I 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.
Discharge in all survey and any small (DOD)	Net any Backla

Biochemical oxygen demand (BOD)

Chemical oxygen demand (COD)

Not applicable

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, 2 ppm, Premixed with TISA	
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)	Discoursulation not englischle
Bioaccumulative potential	Bioaccumulation: not applicable.
Sodium Chloride (7647-14-5)	
Bioaccumulative potential	Not established.
Water (7732-18-5)	
Bioaccumulative potential	Not established.
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Sodium Fluoride (7681-49-4)	
BCF fish 1	2.3 Salmo gairdneri (Oncorhynchus mykiss)
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
Acatic Acid (CA 40 7)	
Acetic Acid (64-19-7) Surface tension	0.028 N/m (20.°C)
Sufface 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			
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15.2. International regulations CANADA				
Fluoride Standard, 2 ppm, Premixed with TISA	AB II			
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			
Acetic Acid (64-19-7)				
Listed on the Canadian DSL (Domestic Sustance	s List)			
WHMIS Classification	Class B Division 3 - Combustible Liquid Class E - Corrosive Material			
Sodium Hydroxide (1310-73-2)				
Listed on the Canadian DSL (Domestic Sustance	s List)			
WHMIS Classification	Class E - Corrosive Material			
Sodium Chloride (7647-14-5)				
Listed on the Canadian DSL (Domestic Sustance	s List)			
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			
Water (7732-18-5)				
Listed on the Canadian DSL (Domestic Sustance	s List)			
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			
Sodium Fluoride (7681-49-4)				
Listed on the Canadian DSL (Domestic Sustance	s 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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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)	

SECTION 16: Other information

Other information

: None.

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Full text of H-phrases: see section 16:

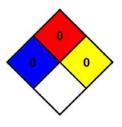
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Aquatic Acute 3	Hazardous to the aquatic environment — Acute Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 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 NFPA reactivity

- : 0 Materials that will not burn.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating	
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Health Flammability Physical

Personal Protection

- : 0 Minimal Hazard No significant risk to health : 0 Minimal Hazard
- : 0 Minimal Hazard : B

SDS US (GHS HazCom 2012)

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