

SAFETY DATA SHEET

Version 1.4

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Issue Date 04-Sep-2019

1. IDENTIFICATION Product identifier **Product Name** Fluoride Vial Test Other means of identification Product Code(s) **TNT878** M03316 Safety data sheet number UN/ID no UN3316 Recommended use of the chemical and restrictions on use **Recommended Use** Water Analysis. Determination of fluoride. Uses advised against Consumer use. For Laboratory Use Only. **Restrictions on use** Details of the supplier of the safety data sheet Manufacturer Address Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050 Emergency telephone number

Revision Date 08-Feb-2023

+1(303) 623-5716 - 24 Hour Service

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

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

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Signal word Danger



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Hazard statements

H314 - Causes severe skin burns and eye damage

Precautionary statements

P260 - Do not breathe dust/fume/gas/mist/vapors/spray P280 - Wear protective gloves, protective clothing, eye protection, and face protection P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

Other Hazards Known

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

<u>Mixture</u>

Chemical	Family
Chemical	nature

Mixture.

Aqueous solution of organic and inorganic salts.

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Hydrochloric acid	7647-01-0	<10%	-
Zirconium oxychloride	7699-43-6	<0.01%	-

4. FIRST AID MEASURES

Description of first aid measures

attendance.
Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. 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. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.
Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical
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	advice/attention.			
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.			
Most important symptoms and effe	cts, both acute and delayed			
Symptoms	Burning sensation.			
Indication of any immediate medica	al attention and special treatment needed			
Note to physicians	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.			
5. FIRE-FIGHTING MEASURES				
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			

Specific hazards arising from the chemical	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.
Hazardous combustion products	No information available.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Caution: Use of water spray when fighting fire may be inefficient.

6. ACCIDENTAL RELEASE MEASURES

U.S. Notice	Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outsid of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.	
Personal precautions, protective	e equipment and emergency procedures	
Personal precautions	Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.	
Other Information	Refer to protective measures listed in Sections 7 and 8.	
Environmental precautions		
Environmental precautions	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.	
Methods and material for contai	nment and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	

Unsuitable Extinguishing Media

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Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.			
Reference to other sections	See section 8 for more information. See section 13 for more information.			
	7. HANDLING AND STORAGE			
Precautions for safe handling				
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.			
Conditions for safe storage, including any incompatibilities				
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.			
Flammability class	Not applicable			

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Hydrochloric acid	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm	IDLH: 50 ppm
CAS#: 7647-01-0		(vacated) Ceiling: 7 mg/m ³	Ceiling: 5 ppm
		Ceiling: 5 ppm	Ceiling: 7 mg/m ³
		Ceiling: 7 mg/m ³	
Zirconium oxychloride	STEL: 10 mg/m ³ Zr	TWA: 5 mg/m ³	IDLH: 25 mg/m ³ Zr
CAS#: 7699-43-6	TWA: 5 mg/m ³ Zr	(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³ except
	-	(vacated) STEL: 10 mg/m ³	Zirconium tetrachloride Zr
			STEL: 10 mg/m ³ Zr

Engineering Controls Showers Eyewash stations Ventilation systems. Individual protection measures, such as personal protective equipment **Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. **Hand Protection** Wear suitable gloves. Impervious gloves. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016. Face protection shield. Eye/face protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Skin and body protection **General Hygiene Considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do Product Code(s) TNT878 Product Name Fluoride Vial Test Issue Date 04-Sep-2019 Revision Date 08-Feb-2023 Version 1.4 **Page** 5/15 not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Local authorities should be advised if significant spillages cannot be contained. Do not allow **Environmental exposure controls** into any sewer, on the ground or into any body of water. None under normal processing. **Thermal hazards** 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Odor	aqueous solution Odorless	Liquid		Color Odor threshold	red No data available	
Property			<u>Values</u>		Remarks • Method	_
Molecular weight	:		No data availal	ble		
рН			0.5			
Melting point / fre	ezing point		No data availal	ble		
Initial boiling poi	nt and boiling rang	е	No data availal	ble		
Evaporation rate			No data availal	ble		
Vapor pressure			No data availal	ble		
Relative vapor de	ensity		No data availa	ble		
Specific Gravity			No data availal	ble		
Partition coefficie	ent		No data availal	ble		
	oon-Water Partitior	1	No data availal	ble		
Coefficient Autoignition tem	perature		No data availal	ble		
Decomposition to	emperature		No data availal	ble		
Dynamic viscosit	су.		No data availal	ble		
Kinematic viscos	ity		No data availal	ble		
Selubility/iee)						

Solubility(ies)

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
None reported	No information available	No data available	No information available

Other information

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Metal Corrosivity Classified as corrosive to metal according to GHS criteria Steel Corrosion Rate Aluminum Corrosion Rate

No data available No data available

Volatile Organic Compounds (VOC) Content

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Hydrochloric acid	7647-01-0	Not applicable	-
Zirconium oxychloride	7699-43-6	No data available	-

Explosive properties

Upper explosion limit Lower explosion limit	No data available No data available
Flammable properties	
Flash point	No data available
Flammability Limit in Air Upper flammability limit: Lower flammability limit:	No data available No data available
Oxidizing properties	No data available.
Bulk density	No data available

10. STABILITY AND REACTIVITY

Reactivity

Corrosive on contact with water. Corrosive to metal.

Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Possibility of hazardous reactions

None under normal processing.

<u>Hazardous polymerization</u> None under normal processing.

Conditions to avoid

Exposure to air or moisture over prolonged periods.

Incompatible materials

Acids. Bases. Oxidizing agent.

Hazardous decomposition products

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

EN / AGHS

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	
Inhalation	Corrosive by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.
Eye contact	Causes burns. Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Corrosive. Causes severe burns. Avoid contact with skin and clothing.
Ingestion	Causes burns. Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.
Symptoms	Redness. Burning. May cause blindness. Coughing and/ or wheezing.

Acute toxicity

Based on available data, the classification criteria are not met

Mixture

No data available.

Ingredient Acute Toxicity Data

Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Zirconium oxychloride (<0.01%) CAS#: 7699-43-6	Rat LD50	2950 mg/kg	None reported	None reported	RTECS

Unknown Acute Toxicity

0.00299999% of the mixture consists of ingredient(s) of unknown toxicity.

Acute Toxicity Estimations (ATE)

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

Skin corrosion/irritation

Causes severe burns.

Mixture

No data available.

Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical nam	e Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Hydrochloric ac (<10%) CAS#: 7647-01	experience	Human	None reported	None reported	Corrosive to skin	RTECS

Serious eye damage/irritation

Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

Mixture

No data available.

Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Hydrochloric acid (<10%) CAS#: 7647-01-0	Existing human experience	Human	None reported	None reported	Corrosive to eyes	RTECS

Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Sensitization Data

No data available.

STOT - single exposure

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Specific Target Organ Toxicity Single Exposure Data Test data reported below.

Test data reported below

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrochloric acid (<10%) CAS#: 7647-01-0	Man LD⊾₀	2.857 mg/kg	None reported	Vascular BP lowering not characterized in autonomic section Lungs, Thorax, or Respiration Respiratory depression Gastrointestinal Other changes	RTECS

Inhalation (Vapor) Exposure Route

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time	_	sources for data

Hydrochloric acid	Human	0.05 mg/L	None reported	Lungs, Thorax, or	RTECS
(<10%)	TCLo			Respiration	
CAS#: 7647-01-0				Cough	

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data Test data reported below.

Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrochloric acid (<10%) CAS#: 7647-01-0	Rat TC⊾₀	0.000685 mg/L	84 days	Behavioral Muscle contraction or spasticity Biochemical Enzyme inhibition, induction, or change in blood or tissue levels (true cholinesterase) Kidney, Ureter, or Bladder Other changes in urine composition	

Carcinogenicity

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Carcinogenicity Data

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Hydrochloric acid	7647-01-0	-	Group 3	-	Х
Zirconium oxychloride	7699-43-6	-	-	-	-

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply	
IARC (International Agency for Research on Cancer)	Group 3 - Not classifiable as a human	
	carcinogen	
NTP (National Toxicology Program)	Does not apply	
OSHA	X - Present	

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Mixture invitro **Data** No data available.

Substance invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and
			uose	ume		sources for data
Hydrochloric acid	Cytogenetic	Hamster lung	30 mmol/L	None reported	Positive test result for	RTECS

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(<10%)	analysis				mutagenicity	
CAS#: 7647-01-0						
Zirconium oxychloride (<0.01%) CAS#: 7699-43-6	Mutation in microorganisms	Salmonella typhimurium	None reported	None reported	Negative	HSDB

Mixture invivo Data

No data available.

Substance invivo Data

No data available.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Reproductive Toxicity Data

Test data reported below.

Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Hydrochloric acid	Rat	0.450 mg/L	1 hours	Effects on Embryo or Fetus	RTECS
(<10%)	TCLO			Fetotoxicity (except death e.g.	
CAS#: 7647-01-0				stunted fetus) Specific	
				Developmental Abnormalities	
				Homeostasis	

Aspiration hazard

Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Based on available data, the classification criteria are not met.

Unknown aquatic toxicity

0.003% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Mixture

Aquatic Acute Toxicity No data available.

Aquatic Chronic Toxicity No data available.

Substance

Aquatic Acute Toxicity No data available.

Aquatic Chronic Toxicity No data available.

Persistence and degradability

Mixture

No data available.

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Mixture No data available.

Partition coefficient

Mobility

Soil Organic Carbon-Water Partition Coefficient

Other adverse effects No information available

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No data available

No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods					
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.				
Contaminated packaging	Do not reuse empty containers.				
US EPA Waste Number	D002				

14. TRANSPORT INFORMATION

DOT UN/ID no Proper shipping name Transport hazard class(es) Description Emergency Response Guide Number	UN3316 CHEMICAL KIT 9 UN3316, CHEMICAL KIT, 9 171
<u>TDG</u> UN/ID no Proper shipping name Transport hazard class(es) Description	UN3316 CHEMICAL KIT 9 UN3316, CHEMICAL KIT, 9
IATA UN number or ID number Proper shipping name Transport hazard class(es) Packing group ERG Code Description	UN3316 Chemical kit 9 II 9L UN3316, Chemical kit, 9
IMDG UN number or ID number Proper shipping name Transport hazard class(es) EmS-No Special precautions for user Description	UN3316 CHEMICAL KIT 9 F-A, S-P 251, 340 UN3316, CHEMICAL KIT, 9

Additional information

This product forms part of a kit. Information in this section relates to the kit as a whole.

15. REGULATORY INFORMATION

National Inventories	
TSCA	Co
DSL/NDSL	Co

Complies Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories

EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL - Existing substances	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIoC	Complies
	•

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

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

- KECL Korean Existing and Evaluated Chemical Substances
- PICCS Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Hydrochloric acid (CAS #: 7647-01-0)	1.0
SARA 311/312 Hazard Categories Acute health hazard Chronic Health Hazard Fire hazard Sudden release of pressure hazard Reactive Hazard	Yes Yes No No No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric acid 7647-01-0	5000 lb	-	-	Х

<u>CERCLA</u>

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

	Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)			
	Hydrochloric acid	5000 lb	5000 lb	RQ 5000 lb final RQ			
	7647-01-0			RQ 2270 kg final RQ			
ī	U.S Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues						

Chemical name	U.S Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues
Hydrochloric acid	Release - Toxic (concentration >=37%); Release - Toxic
(<10%) CAS#: 7647-01-0	(anhydrous); Theft - Weapons of Mass Effect (anhydrous)

U.S. - DEA (Drug Enforcement Administration) List I & List II

Chemical name	U.S DEA (Drug Enforcement Administration) - List I or Precursor Chemicals	U.S DEA (Drug Enforcement Administration) - List II or Essential Chemicals
Hydrochloric acid (<10%) CAS#: 7647-01-0	Not Listed	0.0 kg Domestic Sales Weight (listed under anhydrous Hydrogen chloride); 50 gallon Export Volume (exports, transshipments and international transactions to designated countries given in 1310.08(b)); 27 kg Export Weight (exports, transshipments and international transactions to designated countries given in 1310.08(b), listed under anhydrous Hydrogen chloride)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

IMERC: Not applicable

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Hydrochloric acid 7647-01-0	Х	X	Х
Zirconium oxychloride 7699-43-6	-	X	-

U.S. EPA Label Information

Chemical name	FIFRA	FDA
Hydrochloric acid	180.0910	21 CFR 182.1057

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Special Comments

Additional information

Global Automotive Declarable Substance List (GADSL)

EN / AGHS

Not applicable <u>NFPA and HMIS Classifications</u>

NFPA	Health hazards - 3	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 3	Flammability - 0	Physical hazards - 0	Personal protection - X - I

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH ATSDR CCRIS CDC CEPA CICAD ECHA EEA EPA ERMA ECOSARS FDA GESTIS HSDB INERIS IPCS INCHEM IUCLID NITE NIH NIOSH LOLI NDF NICNAS NIOSH IDLH OSHA PEEN RTECS SIDS SYKE USDA USDC WHO	A C C C C C C C C C C C C C C C C C C C	ATSDR (Agency for Toxic CCRIS (Chemical Carcin CDC (Center for Disease CEPA (Canadian Enviror CICAD (Concise Internat CHA (The European Chi EA (European Environn EA (European Environn EA (Environmental Prot RMA (New Zealands En Stimation through ECOS DA (Food & Drug Admin SESTIS (Information Synsurance) ISDB (Hazardous Subst NERIS (The National Inc SCS INCHEM (Internation apan National Institutes of IOSH (National Institutes OLI (List of Lists - An In o data Sustralia National Industin mediately Dangerous t	c Substances and E aggenesis Research e Control) mmental Protection / ional Chemical Ass memicals Agency) nent Agency) tection Agency) tection Agency) nvironmental Risk M SARS v1.11 part of nistration) ystem on Hazardous tances Data Bank) dustrial Environmen onal Programme on al Uniform Chemical of Technology and E of Health) e for Occupational S ternational Chemical fot Life or Health fety and Health Adm cological Network) c Effects of Chemic ation Dataset) for His t Institute (SYKE) partment of Agricult partment of Comme anization)	Information System) Agency) essment Documents) Management Authority) the Estimation Programs Interface (EPI) Suite™ is Substances of the German Social Accident t and Risks Institute) Chemical Safety) Information Database) Evaluation (NITE) Safety and Health) al Regulatory Database) iccation and Assessment Scheme (NICNAS) hinistration of the US Department of Labor) al Substances) gh Volume Chemicals ure)
_				
TWA	TWA (time-weighted a	average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowable (Concentration	Ceiling	Ceiling Limit Value
N/				

Vacated

SKN*Skin designationSKN+Skin sensitizationRSP+Respiratory sensitization**Hazard Designation

Listed

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These values have no official status. The only

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state Product Code(s) TNT878 Issue Date 04-Sep-2019 Version 1.4 Product Name Fluoride Vial Test Revision Date 08-Feb-2023 Page 15 / 15

C M	Carcinogen mutagen	R	Reproductive toxicant
Prepared By		Hach Product Compliance Department	
Issue Date		04-Sep-2019	
Revision Date		08-Feb-2023	
Revision Note		None	

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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End of Safety Data Sheet