

SAFETY DATA SHEET

Issuing Date 19/01/2024

Revision Number 1

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

Product Identifier

Product Name Cleaner Blend Aqua100
(Solution of Fluorotitanic acid in water)

Other means of identification

Product Code --
CAS Number MIXTURE
Formula Not available
Synonyms Not available
UN-No UN3264

Recommended use of the chemical and restrictions on use

Recommended Use Surface cleaning before application of Coatings.
Do not use where contact with food or drinking water is possible. Avoid prolonged contact with eyes, skin, and clothing.

Details of the supplier of the safety data sheet

Supplier Address ITW India Private Limited | Plot No. 34 to 37, Phase – 2, IDA, TSIIIC,
Pashamylaram, Sangareddy Dist. – 502307 Telangana, India
website: www.itwchemin.com

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin Corrosion/Irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

Emergency overview

Signal Word

DANGER

Hazard statements

Toxic if swallowed

Label elements

Toxic in contact with skin Toxic if inhaled
Causes severe skin burns and eye damage



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)
Immediately call a POISON CENTER or doctor/physician
Specific treatment (see supplemental first aid instructions on this label)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present .
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep the container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Not available

Formula Not available

Chemical name	CAS No.	Weight-%	North American Hazard Indicator
Titanate(2-), hexafluoro-, dihydrogen, (OC-6-11)-	17439-11-1	<10%	True



4. FIRST AID MEASURES

First Aid Measures

General Advice	Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
Skin Contact	Wash off immediately with plenty of water. Wash contaminated clothing before reuse. Consult a physician.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician.
Self-Protection of the First Aider	Use personal protective equipment as required. Avoid contact with eyes, skin and clothing.

Most important symptoms and effects, both acute and delayed

Signs and Symptoms	No information available.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u>	Water spray. Foam. Carbon dioxide (CO ₂). Dry chemical.
<u>Unsuitable Extinguishing Media</u>	No information available.
<u>Hazardous Combustion Products</u>	Thermal decomposition or combustion may produce hazardous gases and/or materials.
<u>Explosion Data</u>	Not available
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

Specific Hazards Arising from the Chemical

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

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	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental Precautions	Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Methods and material for containment and cleaning up

Methods for Clean-up	Pick up and transfer to properly labelled containers.
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7. HANDLING AND STORAGE

Precautions for safe handling

Handling Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Do not breathe vapours/dust. Avoid contact with eyes, skin and clothing. Avoid repeated exposure.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible Materials None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanate(2-), hexafluoro-, dihydrogen, (OC-6-11)- 17439-11-1	-	-	-
Water 7732-18-5	-	-	-
Hydrogen fluoride 7664-39-3	0.5 ppm TWA (as F) 2.5 mg/m ³ TWA (as F) 2 ppm Ceiling (as F) Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 3 ppm F TWA: 2.5 mg/m ³ F (vacated) STEL: 6 ppm F (vacated) TWA: 3 ppm F (vacated) TWA: 2.5 mg/m ³	30 ppm IDLH 250 mg/m ³ IDLH (as F)

Appropriate engineering controls

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight sealing safety goggles.

Skin and body protection Use suitable eye protection and gloves.

Respiratory Protection In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Colorless	
Physical State	Liquid	
Odor	Slight Odor	
Odor Threshold	No information available	

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	< 1	
Melting point / Freezing point	> 100 °C	Literary Reference
Boiling point / boiling range	No information available	
Flash Point	No Data Available	No information available
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air	No information available	
Upper flammability limit	No information available	
Lower flammability limit	Not available	
Vapor Pressure	No information available	
Vapor Density	Not available	
Specific Gravity	No information available	
Water Solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient:n-octanol/water Not available		
Autoignition temperature °C	No Data Available	Estimated
Decomposition temperature	No Data Available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	Not available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	
<u>Other Information</u>		
Softening Point	No information available	
Molecular Weight	No information available	
VOC content	No information available	
Liquid Density	No information available	
Bulk density	No information available	
Corrosion characteristics	No information available	

10. STABILITY AND REACTIVITY

Reactivity

Not applicable.

Chemical Stability

Stable under recommended storage conditions

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Titanate(2-), hexafluoro-, dihydrogen, (OC-6-11)-	-	-	-

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

No information available.

Hazardous Decomposition Products

Hydrogen fluoride.

Possibility of Hazardous Reactions

None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information



Hydrogen fluoride	-	-	= 1276 ppm (Rat) 1 h = 850 mg/m ³ (Rat) 1 h
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The following values are calculated based on chapter 3.1 of the GHS document

Information on likely routes of exposure

Eyes	Causes severe eye damage. Avoid contact with eyes.
Skin	Toxic in contact with skin. Causes severe skin burns and eye damage. Avoid contact with skin.
Inhalation	Toxic by inhalation. Avoid inhalation of vapors, mist, or dust.
Ingestion	Toxic if swallowed. Do not take internally.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	No information available.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chemical name	ACGIH	IARC	NTP	OSHA
Titanate(2-), hexafluoro-, dihydrogen, (OC-6-11)- 17439-11-1	-	-	-	-
Water 7732-18-5	-	-	-	-
Hydrogen fluoride 7664-39-3	A4 - Not Classifiable as a Human Carcinogen	-	-	-

Serious eye damage/irritation	No information available.
Skin Corrosion/Irritation	No information available.
Sensitization	No information available.
Reproductive Effects	No information available.
Mutagenic Effects	No information available.
Developmental Effects	No information available.
STOT - single exposure	No information available.
STOT - Repeated Exposure	No information available.
Aspiration Hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

There is no known ecological information for this product

0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
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Titanate(2-), hexafluoro-, dihydrogen, (OC-6-11)- 17439-11-1	-	-	-	-
Hydrogen fluoride 7664-39-3	-	-	-	= 270 mg/L EC50 270: 48 h Daphnia species mg/L EC50

Persistence/Degradability No information available.

Bioaccumulation/Accumulation No information available.

Mobility in Soil No information available.

Chemical name	log Pow =
Titanate(2-), hexafluoro-, dihydrogen, (OC-6-11)- 17439-11-1	-
Hydrogen fluoride 7664-39-3	-1.4

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods Contact waste disposal services. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

UN-No	UN3264
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Hazard class	8
Packing Group	II
Reportable Quantity (RQ)	(Hydrogen fluoride: RQ (kg)= 45.40) Hydrogen fluoride: RQ (lb)= 100.00
DOT Marine Pollutant	NP.
Description	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Titanate(2-), hexafluoro-, dihydrogen, (OC-6-11)-, Hydrogen fluoride), 8, II
Emergency Response Guide Number	154

**TDG**

UN-No	UN3264
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Hazard class	8
Packing Group	II
Description	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrogen fluoride), 8, II

MEX

UN-No	UN3264
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Hazard class	8
Packing Group	II
Description	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrogen fluoride), 8, II

ICAO

UN-No	UN3264
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Hazard class	8
Packing Group	II
Description	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrogen fluoride), 8, II

IATA

UN number	UN3264
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s.
Transport hazard class(es)	8
Packing Group	II
Description	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrogen fluoride), 8, II

IMDG

UN number	UN3264
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s.
Transport hazard class(es)	8
Packing Group	II
EmS No.	F-A, S-B
Description	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrogen fluoride), 8, II

RID

UN-No	UN3264
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Transport hazard class(es)	8
Packing Group	II
Classification Code	C1
Description	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrogen fluoride), 8, II
ADR/RID-Labels	8

ADR

UN-No	UN3264
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Hazard Class	8
Packing Group	II
Classification Code	C1
Tunnel Restriction Code	(E)
Description	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrogen fluoride), 8, II
Labels	8

ADN

Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Transport hazard class(es)	8
Packing Group	II
Classification Code	C1
Special Provisions	274



Description	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrogen fluoride), 8, II
Hazard label(s)	8
Limited Quantity	1 L
Equipment Requirements	PP, EP

Packing Group	II
Description	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrogen fluoride), 8, II

ICAO

UN-No	UN3264
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Hazard class	8
Packing Group	II
Description	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrogen fluoride), 8, II

IATA

UN number	UN3264
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s.
Transport hazard class(es)	8
Packing Group	II
Description	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrogen fluoride), 8, II

IMDG

UN number	UN3264
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s.
Transport hazard class(es)	8
Packing Group	II
EmS No.	F-A, S-B
Description	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrogen fluoride), 8, II

RID

UN-No	UN3264
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Transport hazard class(es)	8
Packing Group	II
Classification Code	C1
Description	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrogen fluoride), 8, II
ADR/RID-Labels	8

ADR

UN-No	UN3264
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Hazard Class	8
Packing Group	II
Classification Code	C1
Tunnel Restriction Code	(E)
Description	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrogen fluoride), 8, II
Labels	8

ADN

Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Transport hazard class(es)	8
Packing Group	II
Classification Code	C1
Special Provisions	274
Description	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrogen fluoride), 8, II
Hazard label(s)	8
Limited Quantity	1 L
Equipment Requirements	PP, EP

15. REGULATORY INFORMATION



International Inventories

TSCA	Complies
Canada (DSL)	Complies
EU (EINECS)	Complies
EU (ELINCS)	Does not comply
Japan (ENCS)	Does not comply
China (IECSC)	Complies
Korea (KECL)	Complies
Philippines (PICCS)	Does not comply
Australia (AICS)	Complies
Mexico INV	Does not comply
Taiwan INV	Complies

Chemical name	U.S.A. (TSCA)		Canada (DSL)	EU (EINECS)		EU (ELINCS)
Titanate(2-), hexafluoro-, dihydrogen, (OC-6-11)-	Present		Present	X		-
Hydrogen fluoride	Present		Present	X		-
Component	Japan (ENCS)	China (IECSC)	Korea (KECL)	Philippines (PICCS)	Australia (AICS)	
-	Present (1)-319	Present	Present	-	Present	
-	Present (1)-306	Present	Present	Present	Present	
Chemical name		Mexico INV			Taiwan INV	
Titanate(2-), hexafluoro-, dihydrogen, (OC-6-11)-17439-11-1		-			Present	
Hydrogen fluoride 7664-39-3		Present			Present	

Federal Regulations

Component	The Australia Group Export Control List	
Hydrogen fluoride 7664-39-3 (0 -2)	Not listed	
Chemical name	CAS No.	U.S.Commerce Dept. Export Administration Regulations
Titanate(2-), hexafluoro-, dihydrogen, (OC-6-11)-	17439-11-1	1C009
Hydrogen fluoride	7664-39-3	1C350

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

Component	SARA 313 - Threshold Values
Hydrogen fluoride 7664-39-3 (0 -2)	1.0 % de minimis concentration

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

Chemical name	CAS No.	HAPS data
Hydrogen fluoride	7664-39-3	Present

VOC content



This Product does not contain any VOCs

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
Titanate(2-), hexafluoro-, dihydrogen, (OC-6-11)-17439-11-1	-	-	-	-
Hydrogen fluoride 7664-39-3	-	-	-	-

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)

Chemical name	CERCLA/SARA Hazardous Substances	CERCLA/SARA RQ	RQ
Titanate(2-), hexafluoro-, dihydrogen, (OC-6-11)-17439-11-1	-	-	-
Hydrogen fluoride 7664-39-3	100 lb final RQ; 45.4 kg final RQ	-	100 lb final RQ; 45.4 kg final RQ

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Canada:

WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

NFPA

Health 3

Flammability 0

Instability 0

Physical Hazard 0



Issuing Date

19-01-2024

Not available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet