# Honeywell

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sion 2.8	Revision Date 02/11/2025 Print Date 03/06/20
CTION 1. IDENTIFICATION	
Product name	: Hydrofluoric acid 49 %
Number	: 00000001555
Product Use Description	: Metal Pickling, Glass Etching, Chemical derivatives,
Note	Semiconductor etching : Synonyms: HF, Anhydrous HF, AHF, Hydrogen Fluoride, HF
	Acid
	For additional information, please visit http://www.HFacid.com (available 24 hours/day, 7days/week).
Manufacturer or supplier's	: Honeywell International Inc.
details	115 Tabor Road Morris Plains, NJ 07950-2546
For more information call	1-833-543-5059
	+1-509-252-2200(Monday-Friday, 9:00am-5:00pm)
In case of emergency call	<ul> <li>Medical: 1-800-498-5701 or +1-303-389-1414</li> <li>Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887</li> </ul>
	: : (24 hours/day, 7 days/week)
CTION 2. HAZARDS IDENTIF Emergency Overview	ICATION
Form	: liquid
Color	: colourless
Odor	: stinging
Classification of the subst	ance or mixture
Classification of the substand	ce : Corrosive to metals, Category 1

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	Acute toxicity, Categ Skin corrosion, Categ Serious eye damage	gory 1A
GHS Label elements, includ	ing precautionary staten	nents
Symbol(s)		
Signal word	: Danger	
Hazard statements	: H290 H300 + H310 + H330	May be corrosive to metals. Fatal if swallowed, in contact with skin of if inhaled.
	H314	Causes severe skin burns and eye damage.
Precautionary statements	: <b>Prevention:</b> P234 P260	Keep only in original container. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
	P262	Do not get in eyes, on skin, or on clothing.
	P264 P270	Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/ protective clothing.
	P280 P284	Wear eye protection/ face protection. Wear respiratory protection.
	<b>Response:</b> P301 + P310	IF SWALLOWED: Immediately call a
	P301 + P330 + P331	POISON CENTER/ doctor. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303 + P361 + P353	
	P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable
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	P305 + P351 + P338	for several min	inse cautiously with water utes. Remove contact ent and easy to do.
	P310	Continue rinsir Immediately ca doctor.	ng. all a POISON CENTER/
	P361	Remove/ Take	off immediately all
	P363	contaminated Wash contami reuse.	nated clothing before
	P390		e to prevent material
	Storage:	uannaye.	
	P403 + P233	Store in a well- container tight	ventilated place. Keep v closed.
	P405	Store locked u	
	P234		riginal container.
	Disposal:		-
	P501		itents/ container to an e disposal plant.
Carcinogenicity	May cause hypocalce which may be fatal. Specialized medical tr		f calcium in the body) ired for all exposures.
No component of this produce anticipated carcinogen by N	ct present at levels greater tha TP, IARC, or OSHA.	in or equal to 0.1	% is identified as a knowr
CTION 3. COMPOSITION/IN	FORMATION ON INGREDIE	NTS	
Chemical nature	: Mixture		
Chemica	Iname	CAS-No.	Concentration
Water		7732-18-5	51.00 %
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Hydrofluoric acid	7664-39-3	49.00 %
ECTION 4. FIRST AID MEASURE	S	
Inhalation :	Remove to fresh air. Keep patient warr competent medical attention immediate stopped, start artificial respiration at one should administer oxygen to a victim w breathing, until the victim is able to bre Calcium gluconate, 2.5% in normal sal nebulizer with oxygen. Do not give stim to do so by a physician. Victim should physician and held under observation f	ely. If breathing has ce. An authorized person who is having difficulty athe easily by himself. ine may be given by nulants unless instructed be examined by a
Skin contact :	Remove the victim from the contaminate wash the burned area with plenty of was minutes. Limit washing to 5 minutes if the exposure is available. Remove all content washing continuously. After thorough minutes, the burned area should be im 0.13% iced aqueous Benzalkonium Ch relieved. As an alternate first aid treater gluconate gel may be continuously mass until the pain is relieved. For burns not treatment (as measured by pain being p minutes) a physician may inject 2.5% - gluconate beneath, around and in the b anesthetics is not recommended, as re- indicator of effectiveness of treatment.	ater for a minimum of 15 treatment specific for HF caminated clothing while washing for at least 5 mersed in a solution of horide until pain is ment, 2.5% calcium ssaged into the burn area responsive to topical present for longer than 30 5% aqueous calcium burned area. Use of local
Eye contact :	Immediately flush the eyes for at least amounts of gently flowing water. Hold to away from the eye during irrigation to a the eyes. Do not use the benzalkonium solutions described for skin treatment. contact lenses, the lenses should be re However, flushing with water should not lenses should be removed by a person If sterile 1% calcium gluconate solution washing may be limited to 5 minutes, at gluconate solution should be used to in syringe or a continuous irrigation device	the eyelids open and allow thorough flushing of a chloride (Zephiran) If the person is wearing emoved, if possible. To be interrupted, and the who is qualified to do so. a is available, water fter which the 1% calcium rigate the eye using a
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	doctor, preferably an eye specialist, a water compresses may be applied to the victim to the doctor. If a physiciar available, apply one or two drops of ( hydrochloride, 0.5% proparacaine, of ophthalmic anesthetic and continue i medications unless instructed to do s of the eyes is to be avoided.	the eyes while transporting n is not immediately 0.5% tetracaine r other aqueous, topical irrigation. Use no other
Ingestion	: Do not induce vomiting. Do not give Never give anything by mouth to an immediate medical attention. Ingestic emergency.	unconscious person. Get
Notes to physician		
Indication of immediate medical attention and special treatment needed, if necessary	: For large skin area burns (totaling gr inches), for ingestion and for significa severe systemic effects may occur. M hypocalcemia, cardiac arrhythmias, H hyperkalemia. In some cases hemod For certain burns, especially of the d calcium gluconate may be indicated. treat as chemical pneumonia. Monito calcium gluconate in normal saline b intermittent positive pressure breathi decrease pulmonary damage. Bronc administered. A booklet titled "Recom Treatment for Hydrofluoric Acid Expo Honeywell HF website: http://www.H	ant inhalation exposure, Monitor and correct for hypomagnesemia and dialysis may be indicated. ligits, use of intra-arterial For inhalation exposures, or for hypocalcemia. 2.5% by nebulizer or by ing with 100% oxygen may chodilators may also be mmended Medical osure" is available from the
SECTION 5. FIREFIGHTING MEA	SURES	
Suitable extinguishing media	: Water spray Foam Carbon dioxide (CO2) Dry chemical On dilution or dissolving in water, co occurs. Contact with a relatively small quant	
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	reaction generating much heat and s If use of water is necessary use copi	
Specific hazards during firefighting	<ul> <li>Fire or intense heat may cause viole Use a water spray to cool fully close Reacts violently with water.</li> <li>Do not direct water spray at the poin Contact with metals liberates hydrog Hydrogen gas is flammable and may atmosphere.</li> <li>Diking with silicon materials is to be tetrafluoride gas.</li> </ul>	d containers. t of leakage. Jen gas. J form an explosive
Special protective equipment for firefighters	: Personal protection through wearing protection suit and a self-contained k No unprotected exposed skin areas.	preathing apparatus.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Immediately evacuate personnel to safe areas. Immediately contact emergency personnel. Ensure all affected individuals are in a safe environment. Wear personal protective equipment. Unprotected persons must be kept away. Keep people away from and upwind of spill/leak. Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus. Ensure all equipment (including Personal Protective Equipment (PPE)) is compatible with Hydrofluoric acid (HF).
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Prevent spreading over a wide area (e.g. by containment or oil barriers). Diking with silicon materials is to be avoided. May form Silicon tetrafluoride gas.
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Suppress (knock down) gases/vapours/mists with a water spray (fog ). Do not direct water spray at the point of leakage. Use water spray cautiously and in large quantities. With acids neutralization takes place under development of heat. Do not pick up with the help of saw-dust or other combustible substances. Neutralize acidity with an appropriate alkaline material. Neutralize with caustics, lime, soda ash, baking soda or other appropriate alkaline material. Pay attention to the incompatibility statements in Section 10 when effecting neutralization.	0000001555		
(fog).       Do not direct water spray at the point of leakage.         Use water spray cautiously and in large quantities.         With acids neutralization takes place under development of heat.         Do not pick up with the help of saw-dust or other combustible substances.         Neutralize acidity with an appropriate alkaline material.         Neutralize with caustics, lime, soda ash, baking soda or other appropriate alkaline material. Pay attention to the incompatibility statements in Section 10 when effecting neutralization.         ECTION 7. HANDLING AND STORAGE         Handling         Precautions for safe handling         :       Wear personal protective equipment. Exhaust ventilation at the object is necessary. Ensure all equipment (including Personal Protective Equipment (PPE)) is compatible with Hydrofluoric acid (HF). Perform filling operations only at stations with exhaust ventilation facilities.         Specialized medical treatment is required for all exposures. Plan first aid action before beginning work with this product. When diluting, add acids to water, never the other way around. Do not swallow.         Do not get in eyes, on skin, or on clothing.         Advice on protection against fire and explosion         Storage         Conditions for safe storage, including any incompatibilities         : Keep containers tightly closed in a dry, cool and well-ventilated place.         : Keep containers tightly closed in a dry, cool and well-ventilated place.         : Reep locked up or in an area accessible only to	ersion 2.8	Revision Date 02/11/2025	Print Date 03/06/20
<ul> <li>Precautions for safe handling</li> <li>Wear personal protective equipment. Exhaust ventilation at the object is necessary. Ensure all equipment (including Personal Protective Equipment (PPE)) is compatible with Hydrofluoric acid (HF). Perform filling operations only at stations with exhaust ventilation facilities. Specialized medical treatment is required for all exposures. Plan first aid action before beginning work with this product. When diluting, add acids to water, never the other way around. Do not swallow. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing.</li> <li>Advice on protection against fire and explosion</li> <li>Storage</li> <li>Conditions for safe storage, including any incompatibilities</li> <li>Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons. Prevent unauthorized access. Protect from physical damage.</li> </ul>		<ul> <li>(fog ).</li> <li>Do not direct water spray at the poin Use water spray cautiously and in la With acids neutralization takes place heat.</li> <li>Do not pick up with the help of saw-o substances.</li> <li>Neutralize acidity with an appropriate Neutralize with caustics, lime, soda a appropriate alkaline material. Pay a incompatibility statements in Section</li> </ul>	t of leakage. rge quantities. a under development of dust or other combustible e alkaline material. ash, baking soda or other ttention to the
<ul> <li>handling</li> <li>Exhaust ventilation at the object is necessary. Ensure all equipment (including Personal Protective Equipment (PPE)) is compatible with Hydrofluoric acid (HF). Perform filling operations only at stations with exhaust ventilation facilities. Specialized medical treatment is required for all exposures. Plan first aid action before beginning work with this product. When diluting, add acids to water, never the other way around. Do not swallow. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing.</li> <li>Advice on protection against fire and explosion</li> <li>Storage</li> <li>Conditions for safe storage, including any incompatibilities</li> <li>Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons. Prevent unauthorized access. Protect from physical damage.</li> </ul>		ORAGE	
fire and explosion  Storage  Conditions for safe storage, including any incompatibilities  Keep locked up or in an area accessible only to qualified or authorised persons. Prevent unauthorized access. Protect from physical damage.	Precautions for safe	<ul> <li>Exhaust ventilation at the object is n Ensure all equipment (including Pers (PPE)) is compatible with Hydrofluor Perform filling operations only at state ventilation facilities.</li> <li>Specialized medical treatment is req Plan first aid action before beginning When diluting, add acids to water, no Do not swallow.</li> <li>Do not breathe vapours or spray mission</li> </ul>	ecessary. sonal Protective Equipment ic acid (HF). tions with exhaust uired for all exposures. work with this product. ever the other way around.
Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons. Prevent unauthorized access. Protect from physical damage.		: No special precautions required.	
including any place. incompatibilities Keep locked up or in an area accessible only to qualified or authorised persons. Prevent unauthorized access. Protect from physical damage.	-		
	including any	place. Keep locked up or in an area access authorised persons. Prevent unauthorized access. Protect from physical damage.	sible only to qualified or
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Other data :	Ensure that eyewash stations and safety showers are close to the workstation location. Plan first aid action before beginning work with this product. Ensure all equipment (including Personal Protective Equipment
<b>00000001555</b> ersion 2.8         Other data       : <b>ECTION 8. EXPOSURE CONTROL</b> Protective measures       :	The pressure in sealed containers can increase under the influence of heat. <b>LS/PERSONAL PROTECTION</b> Ensure that eyewash stations and safety showers are close to the workstation location. Plan first aid action before beginning work with this product. Ensure all equipment (including Personal Protective Equipment
Version 2.8 Other data : SECTION 8. EXPOSURE CONTROM Protective measures :	The pressure in sealed containers can increase under the influence of heat. <b>LS/PERSONAL PROTECTION</b> Ensure that eyewash stations and safety showers are close to the workstation location. Plan first aid action before beginning work with this product. Ensure all equipment (including Personal Protective Equipment
SECTION 8. EXPOSURE CONTRON	influence of heat. <b>LS/PERSONAL PROTECTION</b> Ensure that eyewash stations and safety showers are close to the workstation location. Plan first aid action before beginning work with this product. Ensure all equipment (including Personal Protective Equipment
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Protective measures :	Ensure that eyewash stations and safety showers are close to the workstation location. Plan first aid action before beginning work with this product. Ensure all equipment (including Personal Protective Equipment
	the workstation location. Plan first aid action before beginning work with this product. Ensure all equipment (including Personal Protective Equipment
Engineering measures :	(PPE)) is compatible with Hydrofluoric acid (HF).
	Use with local exhaust ventilation. Apply technical measures to comply with the occupational exposure limits.
Eye protection :	Wear as appropriate: Goggles or face shield, giving complete protection to eyes
Hand protection :	Protective gloves Gloves must be inspected prior to use. Replace when worn.
Skin and body protection :	Wear suitable protective equipment. complete suit protecting against chemicals
Respiratory protection :	In case of insufficient ventilation wear suitable respiratory equipment. Use NIOSH approved respiratory protection. Have available emergency self-contained breathing apparatus or full-face airline respirator when using this chemical.
Hygiene measures :	<ul> <li>When using, do not eat, drink or smoke.</li> <li>Provide adequate ventilation.</li> <li>Keep working clothes separately.</li> <li>Contaminated work clothing should not be allowed out of the workplace.</li> <li>Do not swallow.</li> <li>Do not breathe vapours or spray mist.</li> <li>Do not get in eyes, on skin, or on clothing.</li> <li>This material has an established AIHA ERPG exposure limit.</li> <li>The current list of ERPG exposure limits can be found at</li> </ul>
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http://www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/D ocuments/2011erpgweelhandbook\_table-only.pdf.

#### **Exposure Guidelines**

Components	CAS-No.	Value	Control parameters	Upda te	Basis
Hydrofluoric acid	7664-39-3	Conc : Concentr ation:	(30 ppm) NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Hydrofluoric acid	7664-39-3	PEL : Permissi ble exposure limit	2.5 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Further : information	Expressed as : as	F		I	
Hydrofluoric acid	7664-39-3	TWA : Time weighted average	(3 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

Further : Expressed as : as F information

Hydrofluoric ac	id	7664-39-3	STEL : Short term exposure limit	(6 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as	F			

Time	2006 OSHA Table Z-2 (29
weighted	CFR 1910.1000), as
average	amended

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sion 2.8		R	evision Date	02/11/2025		Print Date 03/06/2
Hydrofluoric ac	id	7664-39-3	Ceiling : Ceiling Limit Value:	(2 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Expressed as : as	s F			
Hydrofluoric ac	id	7664-39-3	Ceil_Tim e : Ceiling Limit Value and Time Period (if specified) :	5 mg/m3 (6 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Hydrofluoric ac	id	7664-39-3	REL : Recomm ended exposure limit (REL):	2.5 mg/m3 (3 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Hydrofluoric ac	id	7664-39-3	TWA : Time weighted average	(0.5 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Expressed as : as				•
Hydrofluoric ac	id	7664-39-3	SKIN_DE S : Skin designati on:	Danger of cutaneous absorption	01 2020	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Expressed as : as			1	
	CAI	AND CHEMICAL		IES		
Physical state		: liqu	uid			
Color		: col	lourless	·		
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Date 02/11/2025 Print Date 03/06/202 c at 1,013 hPa
at 1,013 hPa
at 1,013 hPa
applicable
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22 °F)
/cm3at 20 °C
pletely miscible
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Bulk density	: Note: Not applicable	
Corrosivity	: Note: Corrosive to metals	
CTION 10. STABILITY AND F	REACTIVITY	
Reactivity	: Not classified as a reactivity haz	ard.
Chemical stability	: Stable under normal conditions.	
Possibility of hazardous reactions	: Hazardous polymerisation does	not occur.
Incompatible materials	<ul> <li>Glass and silicate-containing ma HF contact with glass, concrete materials will yield silicon tetraflu from this process has been know HF contact with carbonates, sulf gases such as carbon dioxide, h cyanide. Contact with alkalies a violent exothermic reactions. Co hydrogen gas, a fire and explosi On dilution or dissolving in water occurs.</li> </ul>	and other silicon bearing uoride gas. Pressure buildup wn to rupture glass containers. ides and cyanides yield toxic hydrogen sulfide and hydrogen and some oxides cause strong pontact with metals will yield ve reactive hazard. r, considerable heating always
Hazardous decomposition products	: No hazardous decomposition pro	oducts are known.
CTION 11. TOXICOLOGICAL	INFORMATION	
Skin irritation	: Note: Causes severe burns.	
Eye irritation	: Note: Extremely corrosive and d	estructive to tissue.
Sensitisation	: Note: No data available	
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ECTION 12.	ECOLOGICAL INFORI	MATION	
Toxicity to Hydrofluo		LC50: 107.5 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rain Test substance: Fluoride ion	nbow trout)
		LC50: 925 mg/l Exposure time: 96 h Species: Gambusia affinis (Mosquit Test substance: Fluoride ion	o fish)
Toxicity to Hydrofluo	o daphnia and other aqu ric acid :	uatic invertebrates EC50: 270 mg/l Exposure time: 48 h Species: Daphnia (water flea) Test substance: Sodium fluoride	
	nformation on ecology		
ECTION 13.	DISPOSAL CONSIDEF	RATIONS	
Disposal r	methods :	Observe all Federal, State, and Loc regulations.	al Environmental
ECTION 14.	TRANSPORT INFORM	IATION	
DOT	UN/ID No. Proper shipping nam Class Packing group Hazard Labels	: UN 1790 e : HYDROFLUORIC ACID 8 II 8 (6.1)	
ΙΑΤΑ	UN/ID No.	: UN 1790	
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	Description of the Class Packaging group Hazard Labels Packing instruction aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)	: 8 : II : 8 (6.1) n (cargo : 855 n : 851 ft) n : Y840	
IMDG	EmS Number Marine pollutant IMDG Code segr	: 8 : II : 8 (6.1) : F-A, S-B : no egation group (SGG1) – ACIDS,	
Inventorie	REGULATORY INF	ORMATION	
Substance (TSCA) Cl	es on the Toxic es Control Act	: All substances listed as active on the TSC/	4 inventory
	Inventory of Chemicals	: All components are listed on the inventory, obligations/restrictions apply	regulatory
Canada. D Substance amended	Domestic es List (DSL), as	: All components of this product are on the C	Canadian DSL
Japan. Ka	shin-Hou Law List	: On the inventory, or in compliance with the	inventory
Korea. Exi Inventory	isting Chemicals (KECI)	: On the inventory, or in compliance with the	inventory
Philippine	s. Inventory of	: On the inventory, or in compliance with the	inventory
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Chemicals and Chemical Substances (PICCS)		
China. Inventory of Existing Chemical Substances (IECSC)	: On the inventory, or in compliance wi	th the inventory
Taiwan Chemical Substance Inventory (TCSI)	: On the inventory, or in compliance wi	th the inventory
Thailand. Existing Chemicals Inventory from FDA (TECI List)	: On the inventory, or in compliance wi	th the inventory
National regulatory informat	ion	
US. EPA CERCLA Hazardous Substances (40 CFR 302)	: The following component(s) of this pr release reporting under 40 CFR 302 Reportable Quantity (RQ):	
	Reportable quantity: 100 lbs : Hydrofluoric acid	7664-39-3
SARA 302 Components	<ul> <li>The following components are subject established by SARA Title III, Section</li> <li>Hydrofluoric acid</li> </ul>	
	<ul> <li>The following components are subject established by SARA Title III, Section</li> <li>Hydrofluoric acid</li> </ul>	
SARA 311/312 Hazards	: Acute Health Hazard Chronic Health Hazard	
CERCLA Reportable Quantity	: 204 lbs	
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#### SAFETY DATA SHEET Honeywell Hydrofluoric acid 49 % 00000001555 Version 2.8 Revision Date 02/11/2025 Print Date 03/06/2025 California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. Massachusetts RTK : Hydrofluoric acid 7664-39-3 **New Jersey RTK** : Hydrofluoric acid 7664-39-3 Pennsylvania RTK : Hydrofluoric acid 7664-39-3 **SECTION 16. OTHER INFORMATION** HMIS III **NFPA** Health hazard : 4\* 4 Flammability 0 : 0 Physical Hazard : 1 Instability : 1

\* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

#### **Further information**

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 a 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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 03/26/2020

Prepared by Honeywell Energy and Sustainabilty Solutions Product Stewardship Group Product Stewardship Group

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