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Safety Data Sheet

according 1907/2006/EC, article 31

Reactivation solution (9895)

1. Identification of the substance / preparation and the company / undertaking

Use of the substance / preparation	Cleaning / maintenance of pH electrodes.
Chemical characterization	Aqueous solution containing inorganic components.
Product code	51 319 053
Supplier	Mettler-Toledo AG Process Analytics Im Hackacker 15 CH-8902 Urdorf Switzerland Tel: +41-44-729 62 11 Fax: +41-44-729 66 36 Email: process.hotline@mt.com
Emergency telephone number	+41-44-251 51 51 (Tox Center)
Revision date	20.07.2012
Number	5

2. Hazards identification

Toxic by inhalation, in contact with skin and if swallowed.
Causes burns.

3. Composition / information on ingredients

Hazardous components	Hydrochloric acid 37 %, (10-15 %), [C, R-34-37], EU No. 017-002-01-X, EINECS No. 231-595-7 Hydrofluoric acid 38-40 %, (<5 %), [T+;C, R-26/27/28-35], CAS No. 7664-39-3, EU No. 009-003-00-1, EINECS No. 231-634-8
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4. First aid measures

Inhalation	No special measures required.
Skin contact	Wash off with soap and water.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Immediately give large quantities of water to drink. Consult a physician for severe cases.

5. Fire-fighting measures

Suitable extinguishing media	No special measures required.
Extinguishing media which must not be used for safety reasons	None.
Specific hazards	The product is not flammable.
Special protective equipment for firefighters	Standard procedure for chemical fires.

6. Accidental release measures

Personal precautions	Sweep up to prevent slipping hazard.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Flush with water.

7. Handling and storage

Handling	Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided. When using, do not eat, drink or smoke.
Storage	Keep containers tightly closed.

8. Exposure controls / personal protection

Exposure limit(s)	OEL value: 1,8 ppm; 1,5 mg/m ³ (Hydrogen fluoride) OEL value: 7.5 mg/m ³ (Hydrogen chloride) [Embryotoxic substance (group C): there is no reason to fear poisoning of the fetus as long as the exposure is below the OEL value]
Engineering measures to reduce exposure	Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.
Personal protection equipment: Respiratory protection	In case of good ventilation no personal respiratory protective equipment required.
Hand protection	Gloves.
Eye protection	Tightly fitting safety goggles.
Skin and body protection	Chemical resistant apron.

9. Physical and chemical properties

Form	Liquid.
Colour	Colourless. Clear.
Odour	Stinging.
Physical and chemical properties	pH: -- Boiling point/range: > 100 °C Relative density: ~1 g/ml. Flash point: does not ignite Water solubility: completely miscible

10. Stability and reactivity

Stability	Stable under recommended storage conditions.
Conditions to avoid	Direct heating, dirt, chemical contamination, sunlight, UV or ionizing radiation.
Materials to avoid	Incompatible with bases. Gives off hydrogen by reaction with metals.
Hazardous decomposition products	Hydrogen fluoride. Hydrogen chloride gas.

11. Toxicological information

Acute toxicity	Hydrogen fluoride: LC50/inhalation/1h/rat = 1270 ppm. LC50/inhalation/1h/mouse = 342 ppm. Hydrogen chloride: LC50/inhalation/1h/rat = 3124 ppm. LC50/inhalation/1h/mouse = 1108 ppm.
Local effects	Extremely corrosive and destructive to tissue.
Long term toxicity	Chronic intensive skin contact may cause dermatitis.
Sensitization	None.
Further information	Toxic if swallowed. Causes burns.

12. Ecological information

Ecotoxicity	Wastewater from subsequent processing should be given appropriate treatment in line with local regulations.
Mobility	No data is available on the product itself.

13. Disposal considerations

Waste from residues / unused products	Taking into account local regulations the product may be disposed of as wastewater after neutralisation. European Waste catalogue code (EWC-code): 06 03 14.
Contaminated packaging	Offer rinsed packaging material to local recycling facilities.

14. Transport information

ADR/RID	Proper shipping name: Corrosive liquid, toxic, n.o.s. (Hydrochloric acid, Hydrofluoric acid).
	UN No.: 2922.
	Kemler code: 86.
	Class: 8.
	Packing group: II.
	ADR/RID-Labels: 8/6.1.

IMO	Proper shipping name:	Corrosive liquid, toxic, n.o.s. (Hydrochloric acid, Hydrofluoric acid).
	UN No.:	2922.
	Class:	8.
	Packing group:	II.
	IMO-Labels:	8+6.1.
	Marine pollutant:	mp.
	EMS:	8-15.
IATA	Proper shipping name:	Corrosive liquid, toxic, n.o.s. (Hydrochloric acid, Hydrofluoric acid).
	UN No.:	2922.
	Class:	8.
	Packing group:	II.
	IATA-Labels:	8/6.1.
	Packing instruction (passenger aircraft):	851 (1 L)
	Packing instruction (cargo aircraft):	855 (30 L)

15. Regulatory information

Regulatory information	The product is classified and labelled in accordance with EC directives or respective national laws.	
Symbol(s)	C - Corrosive. T - Toxic.	
R-phrase(s)	R23/24/25:	Toxic by inhalation, in contact with skin and if swallowed.
	R34:	Causes burns.
S-phrase(s)	S7:	Keep container tightly closed.
	S26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28:	After contact with skin, wash immediately with plenty of water.
	S36/37/39:	Wear suitable protective clothing, gloves and eye/face protection.
	S45:	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. Other information

Recommended use

For industrial application only.

Text of R phrases mentioned in section 2

R26/27/28: Very toxic by inhalation,
in contact with skin and if swallowed.
R34: Causes burns.
R35: Causes severe burns.
R37: Irritating to respiratory system.

End use

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. It is not to be considered a warranty or quality specification.
