METTLER TOLEDO SAFETY DATA SHEET

according to the Globally Harmonized System

Regeneration solution

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Regeneration solution

Reconditioning solution (9927) **Synonyms**

Product code 52118033, 51350104

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Company/Undertaking

Identification

Mettler-Toledo GmbH Im Langacher 44

CH-8606 Greifensee

Switzerland

+41 22 567 53 22 Tel: +41 22 567 53 23 Fax: Email: ph.lab.support@mt.com 76185 Karlsruhe, Germany +49 721 5606 0 sicherheit@carlroth.de

Lieferant | Supplier: Carl Roth GmbH + Co KG

Schoemperlenstr. 3-5

1.4. Emergency telephone

number

(24-Hour-Number): GBK GmbH +49 6132 84463

Issuing date 22.03.2023

Version GHS 3 (Previous versions: GHS 2)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Skin corrosion/irritation, Cat. 2, H315

Regulation (EC) No. 1272/2008 Serious eye damage/eye irritation, Cat. 2, H319

Additional information For the full text of the phrases mentioned in this Section, see

Section 16.



2.2. Label elements



Signal Word Warning

Hazard Statements H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary statements 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): Take off immediately all

contaminated clothing. Rinse skin with water/shower.

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

do. Continue rinsing.

Supplemental information None.

Product identifier None.

Contents of package < 125 ml

Warning

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Water based solution of inorganic salts.

Components		CLP Classification	Product identifier
Deionised water	95% - 99%	-	CAS-No.: 7732-18-5 EC-No.: 231-791-2
Ammonium bifluoride; ammonium hydrogen difluoride	0.5% - 1%	Acute Tox. 3 H301, Skin Corr. 1B H314 [Skin Corr. 1B H314: C ≥ 1 % Skin Irrit. 2 H315: 0,1 % ≤ C < 1 % Eye Irrit. 2 H319: 0,1 % ≤ C < 1 %]	CAS-No.: 1341-49-7 EC-No.: 215-676-4 Index-No: 009-009-00-4

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.



SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move to fresh air in case of accidental inhalation of vapours or

decomposition products. Call a physician or poison control centre

immediately.

Skin contact Wash off immediately with soap and plenty of water while removing

all contaminated clothes and shoes. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal

slowly and with difficulty.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Consult an ophthalmologist.

Ingestion Rinse mouth. If swallowed, seek medical advice immediately and

show this container or label.

4.2. Most important symptoms and effects, both acute and

delayed

None known.

4.3. Indication of any immediate medical attention and special

treatment needed

None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

carbon dioxide.

Unsuitable extinguishing media None.

5.2. Special hazards arising from

the substance or mixture

The product is not flammable. Use extinguishing measures that are

appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

5.3. Advice for firefighters

Special protective equipment for

firefighters

Standard procedure for chemical fires. In the event of fire, wear

self-contained breathing apparatus. Wear protective suit.

Specific methods Water mist may be used to cool closed containers.



SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Ensure adequate ventilation. Use personal protective equipment.

Sweep up to prevent slipping hazard. Avoid contact with skin and

Evacuate personnel to safe areas. Use personal protective For emergency responders

equipment. Sweep up to prevent slipping hazard. Do not breathe

vapours/dust.

6.2. Environmental precautions Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable and closed

containers for disposal (Plastic container of HDPE).

6.4. Reference to other sections See chapter 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Wear personal protective equipment. Practice care and caution to avoid skin contact and inhalation of vapours or mists if generated.

Avoid contact with skin and eyes.

7.2. Conditions for safe storage,

including any incompatibilities

Store at room temperature in the original container. Storage class 8.

7.3. Specific end use(s) No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) No data is available on the product itself.

8.2. Exposure controls

Handle in accordance with good industrial hygiene and safety Appropriate engineering controls

practice. Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory

equipment. Respirator with combination filter for vapour/particulate

(EN 14387).



Hand protection Hydrofluoric acid-resistant and solvent-resistant gloves (gloves

made of VITON (R)). The selected protective gloves have to satisfy

the specifications of Regulation (EU) No. 2016/425 and the

standard EN 374 derived from it. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of

contact). Break through time: > 4 h.

Eye protection Safety glasses with side-shields conforming to EN166.

Skin and body protection Choose body protection according to the amount and concentration

of the dangerous substance at the work place.

Thermal hazards No special measures required.

Environmental exposure controls Prevent product from entering surface water or sewage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid.
Colour Colourless.
Odour None.

Odour Threshold Not determined.

pH: ~ 2

Melting point/ freezing point:

Boiling point or initial boiling

Not determined.

Not determined.

point / range:

Flash point: Not determined.

Evaporation Rate:

Flammability:

Lower and upper explosion limit:

Vapour pressure:

Relative vapour density:

Not determined.

Not determined.

Not determined.

Not determined.

Density and/or relative density: 1.0

Water solubility: completely miscible Partition coefficient n- Not determined.

octanol/water (log value):

Auto-ignition temperature:

Decomposition temperature:

Kinematic viscosity:

Explosive properties:

Not determined.

Not determined.

Not determined.

Not determined.

Oxidising properties: None

9.2. Other information

General Product Characteristics No information available.



SECTION 10: Stability and reactivity

10.1. Reactivity No information available.

10.2. Chemical stability Stable at normal conditions.

10.3. Possibility of hazardous

reactions

No information available.

10.4. Conditions to avoid Not required.

10.5. Incompatible materials None.

10.6. Hazardous decomposition

products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity No data is available on the product itself.

Deionised water (CAS 7732-18-5)

Oral LD50 Rat > 90 mL/kg (FOOD_JOURN)

Ammonium bifluoride; ammonium hydrogen difluoride (CAS

1341-49-7)

Oral LD50 Rat = 130 mg/kg (IUCLID)

Skin corrosion/irritation Corrosive.

Serious eye damage/eye

irritation

Corrosive.

Respiratory / Skin Sensitisation No data available.

Carcinogenicity No data available.

Germ cell mutagenicity No data available.

Reproductive toxicity No data available.

Specific target organ toxicity

(single exposure)

No data available.

Specific target organ toxicity

(repeated exposure)

No data available.

Aspiration hazard No data available.

Human experience No data available.

Information on likely routes of

exposure

dermal



Symptoms related to the physical, chemical and toxicological characteristics

Inhaled corrosive substances can lead to a toxic oedema of the lungs.

SECTION 12: Ecological information

12.1. Toxicity No data is available on the product itself. May change pH of waters.

12.2. Persistence and

degradability

Expected to be biodegradable.

12.3. Bioaccumulative potential Bioaccumulation is unlikely.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

This preparation contains no substance considered to be persistent,

bioaccumulating nor toxic (PBT).

12.6. Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Dispose of as unused product.

SECTION 14: Transport information

ADR/RID UN 2817.

Proper shipping name: AMMONIUM HYDROGENDIFLUORIDE

SOLUTION. Class 8.

Packing group III.

ADR/RID-Labels 8+6.1. Classification code CT1. Hazard identification no. 86.

Limited quantity 5 L. Excepted quantity E1. Transport category 3. Tunnel restriction code (E).



IMDG UN 2817.

Proper shipping name: AMMONIUM HYDROGENDIFLUORIDE

SOLUTION. Class 8.

Packing group III. IMDG-Labels 8+6.1. Limited quantity 5 L. Excepted quantity E1. EmS F-A, S-B. Marine pollutant: No.

IATA UN 2817.

Proper shipping name: Ammonium hydrogendifluoride solution.

Class 8.

Packing group III. IATA label 8+6.1.

Packing instruction (passenger aircraft): 852 (5 L).

Packing instruction (LQ): Y841 (1 L).

Packing instruction (cargo aircraft): 856 (60 L).

Inland navigation ADN UN 2817.

Proper shipping name: AMMONIUM HYDROGENDIFLUORIDE

SOLUTION. Class 8.

Packing group III.
ADN labels 8+6.1.
Classification code CT1.
Limited quantity 5 L.
Excepted quantity E1.

Further Information Due to low concentration of components, the Packing Group III is

correct.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory Information The product is classified and labelled in accordance with EC

directives or respective national laws.

Ammonium bifluoride; ammonium hydrogen difluoride (CAS 1341-49-7)		
EU - Control of Exports of Dual Use	1C350.42	
Items (2021/821)		
EU - REACH (1907/2006) - Annex	Use restricted. See item 75.	
XVII - Restrictions on Certain		
Dangerous Substances		
EU - REACH (1907/2006) - List of	Present ([215-676-4])	
Registered Intermediates		
EU - REACH (1907/2006) - List of	Present	
Registered Substances		

15.2. Chemical safety

Not required.

assessment



SECTION 16: Other information

Revision Note Safety datasheet sections which have been updated: 1, 9.

Key or legend to abbreviations

and acronyms

None.

Key literature references and

sources for data

Information taken from reference works and the literature.

Classification procedure Calculation method.

Full text of phrases referred to under sections 2 and 3

H301: Toxic if swallowed.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

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 a guidance for safe handling, use, processing, storage, transportation, disposal

and release. It is not to be considered a warranty or quality

specification.

