

according to 1907/2006/EC, Article 31 (REACH)

Printing date 31.07.2018

Revision: 31.10.2017

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

- · 1.1 Product identifier
- Trade name: Tantalum, standard solution 1000 mg/l for ICP (Ta in HNO3 5% + HF 1%)
- · Article number: TA0201
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the preparation: Laboratory reagent
- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Scharlab, S.L.
   C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN
   Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65
   email: scharlab@scharlab.com
   Internet Web Site: www.scharlab.com

# Regional representation: Scharlab, S.L. C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com

*Further information obtainable from:* technical department *1.4 Emergency telephone number:* Please contact the regional Scharlab distributor/dealer in your country During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

## **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008



GHS06 skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms GHS05 GHS06 · Signal word Danger · Hazard-determining components of labelling: nitric acid hydrogen fluoride Hazard statements H311 Toxic in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. Precautionary statements P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P310 Specific treatment (see on this label). P321 Take off immediately all contaminated clothing and wash it before reuse. P361+P364 P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. 2.3 Other hazards Results of PBT and vPvB assessment

• PBT: Not applicable.

• vPvB: Not applicable.

#### **SECTION 3: Composition/information on ingredients**

3.2 Chemical characterisation: Mixtures

· Description: Aqueous solution

Dangerous components:

Dangerous components:		
CAS: 7697-37-2	nitric acid	1-5%
EINECS: 231-714-2	🚸 Ox. Liq. 2, H272; 🔶 Skin Corr. 1A, H314	
Reg.nr.: 01-2119487297-23-XXX		
CAS: 7664-39-3	hydrogen fluoride	0.1-1%
EINECS: 231-634-8	Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox.	
	2, H330; 🔗 Skin Corr. 1A, H314	

· Additional information: For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

- General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- · After inhalation:
- Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.

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- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Call for a doctor immediately.
- **4.2** Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3** Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

- · 7.1 Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

· Additional information about design of technical facilities: No further data; see item 7.

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- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
   7697-37-2 nitric acid

WEL Short-term value: 2.6 mg/m<sup>3</sup>, 1 ppm

#### 7664-39-3 hydrogen fluoride

- WEL Short-term value: 2.5 mg/m<sup>3</sup>, 3 ppm Long-term value: 1.5 mg/m<sup>3</sup>, 1.8 ppm
- Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### · Eye protection:



Tightly sealed goggles

#### **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- General Information
- · Appearance:
  - Form: Colour:
- · Odour:
- Odour threshold:

Fluid Colourless Odourless Not determined.

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Trade name: Tantalum, standard solution 1000 mg/l for ICP (Ta in HNO3 5% + HF 1%) (Contd. of page 4) Not determined. pH-value: · Change in condition Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 100 °C · Flash point: Not applicable. · Flammability (solid, gas): Not applicable. Decomposition temperature: Not determined. Product is not selfigniting. Auto-ignition temperature: · Explosive properties: Product does not present an explosion hazard. · Explosion limits: Lower: Not determined. Upper: Not determined. Vapour pressure at 20 °C: 23 hPa Density at 20 °C: 1.0529 g/cm<sup>3</sup> · Relative density Not determined. · Vapour density Not determined. Not determined. Evaporation rate Solubility in / Miscibility with Not miscible or difficult to mix. water: · Partition coefficient: n-octanol/water: Not determined. · Viscosity: Dynamic: Not determined. Kinematic: Not determined. · Solvent content: Organic solvents: 0.0 % Water: 94.8 % Solids content: 0.2 % 9.2 Other information No further relevant information available.

#### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- Acute toxicity
- Toxic in contact with skin.

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· LD/LC50 values relevant for classification:

7664-39-3 hydrogen fluoride

- Oral LD50 1,276 mg/kg (rat)
- · Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

#### SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

UN2922

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

#### **SECTION 14: Transport information**

- · 14.1 UN-Number
- · ADR, IMDG, IATA
- · 14.2 UN proper shipping name
- · ADR

2922 CORROSIVE LIQUID, TOXIC, N.O.S. (NITRIC ACID, HYDROGEN FLUORIDE) CORROSIVE LIQUID, TOXIC, N.O.S. (NITRIC ACID, HYDROGEN FLUORIDE)

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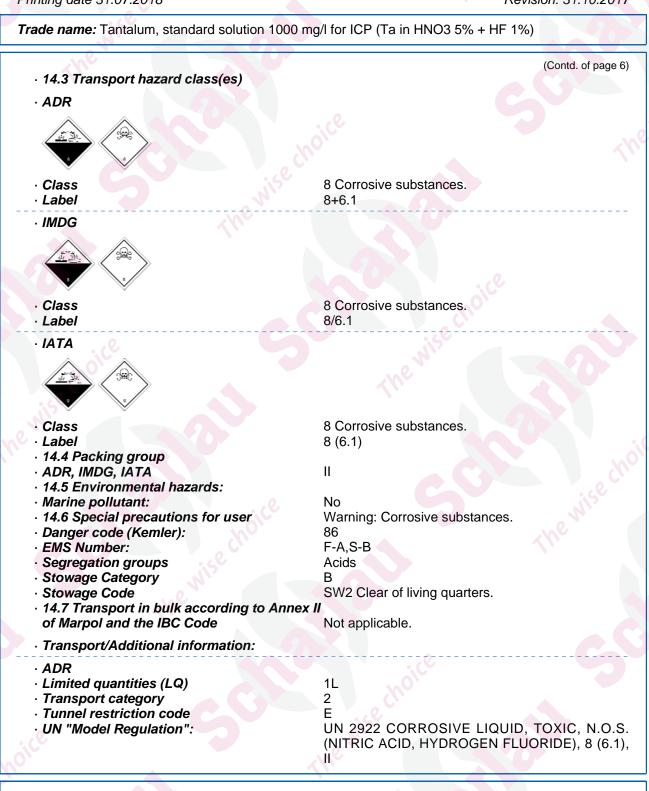
· IMDG, IATA



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#### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H272 May intensify fire; oxidiser.
- H300 Fatal if swallowed.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H330 Fatal if inhaled.
- Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· Department issuing SDS: product safety department

#### · Contact: msds@scharlab.com

 Abbreviations and acronyms:

 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

 ICAO: International Civil Aviation Organisation

 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

 IMDG: International Maritime Code for Dangerous Goods

 IATA: International Air Transport Association

 GHS: Globally Harmonised System of Classification and Labelling of Chemicals

 EINCCS: European Inventory of Existing Commercial Chemical Substances

 ELINCS: European List of Notified Chemical Substances

 CAS: Chemical Abstracts Service (division of the American Chemical Society)

 LC50: Lethal concentration, 50 percent

 LD50: Lethal dose, 50 percent

 PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Ox. Liq. 2: Oxidizing liquids – Category 2

Acute Tox. 2: Acute toxicity - Category 2

- Acute Tox. 1: Acute toxicity Category 1
- Acute Tox. 3: Acute toxicity Category 3
- Skin Corr. 1A: Skin corrosion/irritation Category 1A
- Skin Irrit. 2: Skin corrosion/irritation Category 2
- Eye Dam. 1: Serious eye damage/eye irritation Category 1