

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

Printing date 31.07.2018

Scharlau

Revision: 04.07.2018

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

- · 1.1 Product identifier
- Trade name: Thallium, standard solution 1000 mg/l for ICP (TI in HNO3 2%)
- · Article number: TA0031
- · Registration number

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

• **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

GHS07

Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation. • *Hazard pictograms*



· Signal word Warning

• *Hazard statements* H315 Causes skin irritation.

(Contd. on page 2)



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

Printing date 31.07.2018

Revision: 04.07.2018



(Contd. on page 3)



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

Printing date 31.07.2018

Revision: 04.07.2018

Trade name: Thallium, standard solution 1000 mg/l for ICP (TI in HNO3 2%)

(Contd. of page 2)

- **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.
- · 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/m³, 1 ppm

10102-45-1 thallium nitrate

- WEL Long-term value: 0.1 mg/m³
- Sk; as Tl
- 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.

(Contd. on page 4)



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

Printing date 31.07.2018

Revision: 04.07.2018

Trade name: Thallium, standard solution 1000 mg/l for ICP (TI in HNO3 2%)

(Contd. of page 3)

- · 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:
- · pH-value:
- Change in condition Melting point/freezing point: Initial boiling point and boiling range: 100 °C

Flash point:

- · Flammability (solid, gas):
- · Auto-ignition temperature:
- Explosive properties:
- Explosion limits: Lower: **Upper:**
- Vapour pressure at 20 °C:
- Density at 20 °C:

Fluid According to product specification Characteristic Not determined.

Not determined.

Undetermined.

Not applicable.

Not applicable.

Product is not selfigniting.

Product does not present an explosion hazard.

Not determined. Not determined.

23 hPa

1.0257 g/cm3

(Contd. on page 5)



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

Printing date 31.07.2018		Revision: 04.07.2018
Trade name: Thallium, standard solution 100	0 mg/l for ICP (TI in HNO3 2%)	
 Relative density Vapour density Evaporation rate 	Not determined. Not determined. Not determined.	(Contd. of page 4)
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.	
Partition coefficient: n-octanol/water:	Not determined.	
 Viscosity: Dynamic: Kinematic: 	Not determined. Not determined.	
Solvent content: Organic solvents: Water:	0.0 % 96.9 %	

Solids content: 9.2 Other information 0.1 %

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 Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

10102-45-1 thallium nitrate

- Oral LD50 15 mg/kg (mouse)
- Primary irritant effect:
- · Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- · 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.

(Contd. on page 6)



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

Printing date 31.07.2018

Revision: 04.07.2018

Trade name: Thallium, standard solution 1000 mg/l for ICP (TI in HNO3 2%)

(Contd. of page 5)

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.

UN3264

8

Ш

- · 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
- · IMDG, IATA
- · 14.3 Transport hazard class(es)
- · ADR, IMDG, IATA



- · Class
- · Label
- · 14.4 Packing group
- · ADR, IMDG, IATA
- 14.5 Environmental hazards:
- · Marine pollutant:
- · 14.6 Special precautions for user
- Danger code (Kemler):
 EMS Number:
- · Elvis Number.
- Segregation groups
 Stowage Category

No Warning: Corrosive substances. 80 F-A,S-B Acids A

8 Corrosive substances.

3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,

N.O.S. (NITRIC ACID, THALLIUM NITRATE) CORROSIVE LIQUID, ACIDIC, INORGANIC,

N.O.S. (NITRIC ACID, THALLIUM NITRATE)

(Contd. on page 7)





according to 1907/2006/EC, Article 31 (REACH)		
Printing date 31.07.2018	Revision: 04.07.2018	
Trade name: Thallium, standard solution 1000 mg/	I for ICP (TI in HNO3 2%)	
 Stowage Code 14.7 Transport in bulk according to Annex Is of Marpol and the IBC Code 	SW2 Clear of living quarters. Not applicable.	
· Transport/Additional information:		
 ADR Limited quantities (LQ) Transport category Tunnel restriction code UN "Model Regulation": 	5L 3 E UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, THALLIUM NITRATE), 8, III	
SECTION 15: Regulatory information		
	ulations/legislation specific for the substance or one of the ingredients is listed. //I Conditions of restriction: 3	
SECTION 16: Other information	ledge. However, this shall not constitute a guarantee	
for any specific product features and shall not e		

Relevant phrases

- H272 May intensify fire; oxidiser.
- H300 Fatal if swallowed.
- H314 Causes severe skin burns and eye damage.
- H330 Fatal if inhaled.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- 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 acronvms:
- 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
- EINECS: 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 Skin Corr. 1A: Skin corrosion/irritation Category 1A Skin Irrit. 2: Skin corrosion/irritation Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation Category 2
- STOT RE 2: Specific target organ toxicity (repeated exposure) Category 2
- Aquatic Chronic 2: Hazardous to the aquatic environment long-term aquatic hazard Category 2