according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

### Version number 2.0

Revision: 02.06.2021

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

· 1.1 Product identifier

- · Trade name: ICP multielement calibration standard solution, 16 elements in HNO3 10%
- · Article number: MU0113
- **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:

Toxicological Information National Institute of Toxicology and Forensic Sciences: + 34 91 562 04 20. The information will be provided (24h/365 days) 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



GHS08 health hazard



H350i May cause cancer by inhalation.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

· 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 2.0

Revision: 02.06.2021

Trade name: ICP multielement calibration standard solution, 16 elements in HNO3 10%

(Contd. of page 1) · Hazard pictograms GHS05 GHS07 GHS08 · Signal word Danger Hazard-determining components of labelling: nitric acid cobalt dinitrate nickel dinitrate Hazard statements H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H350i May cause cancer by inhalation. Precautionary statements P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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. P310 Immediately call a POISON CENTER/doctor. P321 Specific treatment (see on this label). P362+P364 Take off contaminated clothing and wash it before reuse. 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: Mixture of substances listed below with nonhazardous additions.

	· Dangerous components:		
	CAS: 7697-37-2 EINECS: 231-714-2 Reg.nr.: 01-2119487297-23- XXXX	nitric acid � Ox. Liq. 2, H272; � Skin Corr. 1A, H314	5-10%
noil	CAS: 10141-05-6 EINECS: 233-402-1	cobalt dinitrate ♦ Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1B, H350i; Repr. 1B, H360F; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Skin Sens. 1, H317	≤0.1%
	CAS: 13138-45-9 EINECS: 236-068-5 • <b>Additional information:</b> For the	nickel dinitrate Ox. Sol. 2, H272; Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1A, H350i; Repr. 1B, H360D; STOT RE H372; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317 wording of the listed hazard phrases refer to section 16.	≤0.1% 1.
	e choice	(Contd.	on page 3)
	Thewise		

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 2.0

Revision: 02.06.2021

*Trade name:* ICP multielement calibration standard solution, 16 elements in HNO3 10%

(Contd. of page 2)

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

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation:
- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. 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: No special measures required.

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

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · 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). Use neutralising agent.
- 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. Open and handle receptacle with care. Prevent formation of aerosols.
- · Information about fire and explosion protection: Keep respiratory protective device available.
- · 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.

(Contd. on page 4)

# Scharlau

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 2.0

Revision: 02.06.2021

(Contd. of page 3)

Trade name: ICP multielement calibration standard solution, 16 elements in HNO3 10%

· 7.3 Specific end use(s) No further relevant information available.

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

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

- 10141-05-6 cobalt dinitrate
- WEL Long-term value: 0.1 mg/m<sup>3</sup>

as Co; Carc, Sen

### 13138-45-9 nickel dinitrate

WEL Long-term value: 0.1 mg/m<sup>3</sup>

as Ni; Sk; Carc; Sen

- · 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.

Store protective clothing separately. 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

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

(Contd. on page 5)

# Scharlau

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 2.0

Revision: 02.06.2021

*Trade name:* ICP multielement calibration standard solution, 16 elements in HNO3 10%

(Contd. of page 4)

Eye protection:



Tightly sealed goggles

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

· 9.1 Information on basic physical and chemical properties · General Information · Appearance: Fluid Form: Colour: Colourless · Odour: Odourless Odour threshold: Not determined. · pH-value: Not determined. · Change in condition Undetermined. Melting point/freezing point: Initial boiling point and boiling range: 83 °C · Flash point: Not applicable. · Flammability (solid, gas): Not applicable. Decomposition temperature: Not determined. · Auto-ignition temperature: Product is not selfigniting. · Explosive properties: Product does not present an explosion hazard. Explosion limits: Lower: Not determined. Not determined. Upper: Vapour pressure at 20 °C: 23 hPa Not determined. · Density: Relative density Not determined. Vapour density Not determined. Evaporation rate Not determined. · 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: Water: 91.1 % 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.

(Contd. on page 6)



according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 2.0

Revision: 02.06.2021

Trade name: ICP multielement calibration standard solution, 16 elements in HNO3 10%

(Contd. of page 5)

- · 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.
- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- Serious eye damage/irritation Causes serious eye damage.
- *Respiratory or skin sensitisation* May cause an allergic skin reaction.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity
- May cause cancer by inhalation.
- 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 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into the ground.

### 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.

(Contd. on page 7)

# Scharlau

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 2.0

UN3264

3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, ALUMINIUM NITRATE)

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

Revision: 02.06.2021

(Contd. of page 6)

*Trade name:* ICP multielement calibration standard solution, 16 elements in HNO3 10%

· 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	8 Corrosive substances.	
	Label	8	
	14.4 Packing group		
	ADR, IMDG, IĂTA	II	
۰.	14.5 Environmental hazards:		
	Marine pollutant:	No	
	14.6 Special precautions for user	Warning: Corrosive substances.	
	Hazard identification number (Kemler code): 80		
	EMS Number:	F-A,S-B	
	Segregation groups	Acids	
	Stowage Category	В	
	Stowage Code	SW2 Clear of living quarters.	
· 14.7 Transport in bulk according to Annex II			
	of Marpol and the IBC Code	Not applicable.	
	Transport/Additional information:		
	ADR		
	Limited quantities (LQ)	1L	
	Transport category	2	
	Tunnel restriction code	E	
	UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC,	
		INORGANIC, N.O.S. (NITRIC ACID, ALUMINIUM	
		NITRATE), 8, II	

## **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, 27, 28
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

(Contd. on page 8)

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 2.0

Revision: 02.06.2021

Trade name: ICP multielement calibration standard solution, 16 elements in HNO3 10%

(Contd. of page 7)

· 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.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H341 Suspected of causing genetic defects.
- H350i May cause cancer by inhalation.
- H360D May damage the unborn child.
- H360F May damage fertility.
- H372 Causes damage to organs through prolonged or repeated exposure.H400 Very toxic to aquatic life.
- H410 Very 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 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 relatif au transport international 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Ox. Liq. 2: Oxidizing liquids - Category 2

Ox. Sol. 2: Oxidizing solids – Category 2 Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1

Muta. 2: Germ cell mutagenicity - Category 2

Carc. 1A: Carcinogenicity – Category 1Ai Carc. 1B: Carcinogenicity – Category 1B

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Repr. 1B: Reproductive toxicity - Category 1B

Repr. 1B: Reproductive toxicity - Category 1B

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1