according to 1907/2006/EC, Article 31

Printing date 07.06.2021

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#### 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: Iron, standard solution 1000 mg/l Fe for AA (iron(III) nitrate nonahydrate in nitric acid 0,5 mol/l)
- · Article number: HI0302
- · 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:

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



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

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.

(Contd. on page 2)

rinting date 07.06.2021	cording to 1907/2006/EC, Article 3 Version number 2.0	1 Revision: 02.06.202
Inting date 07.06.2021	Version number 2.0	Revision. 02.06.202
r <b>ade name:</b> Iron, standard solut mol/l)	ion 1000 mg/l Fe for AA (iron(III) nitrate	nonahydrate in nitric acid 0,5
The		(Contd. of page 1
· Hazard pictograms		(Conta: of page )
	ice	
	NO.	
GHS05		
	iso	
<ul> <li>Signal word Danger</li> </ul>		
· Hazard-determining compo	onents of labelling:	
nitric acid		
Hazard statements     H315 Causes skin irritation.		
H318 Causes serious eye da	mage.	
Precautionary statements		ice
	ective gloves / eye protection / face protection	
	S: Rinse cautiously with water for seve	
	present and easy to do. Continue rinsing ely call a POISON CENTER/doctor.	
	eatment (see on this label).	
P362+P364 Take off c	ontaminated clothing and wash it before	
	ation occurs: Get medical advice/attentic	on.
• 2.3 Other hazards • Results of PBT and vPvB a	a a a a mant	
• <b>PBT:</b> Not applicable.	ssessment	
• <i>vPvB:</i> Not applicable.		
SECTION 3: Composit	on/information on ingredients	
· 3.2 Chemical characterisati	on: Mixtures	ne
· Description: Aqueous solution		
Dangerous components:		
CAS: 7697-37-2	nitric acid	1-5%
EINECS: 231-714-2	♦ Ox. Liq. 2, H272; ♦ Skin Corr. 1	
Reg.nr.: 01-2119487297-23-		, -
XXXX		
<ul> <li>Additional information: For</li> </ul>	the wording of the listed hazard phrases	s reter to section 16.

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

· 4.1 Description of first aid measures

• After inhalation: 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:

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- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. • After swallowing: If symptoms persist consult doctor.
- · 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.

(Contd. on page 3)

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 2.0

Revision: 02.06.2021

*Trade name:* Iron, standard solution 1000 mg/I Fe for AA (iron(III) nitrate nonahydrate in nitric acid 0,5 mol/l)

(Contd. of page 2)

#### **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 Not required.

- 6.2 Environmental precautions: Dilute with plenty of water.
   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). 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**

#### 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
- · 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.

(Contd. on page 4)

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according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 2.0

Revision: 02.06.2021

(Contd. of page 3)

Trade name: Iron, standard solution 1000 mg/l Fe for AA (iron(III) nitrate nonahydrate in nitric acid 0,5 mol/l)

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:
- · pH-value:
- · Change in condition
- Melting point/freezing point: Initial boiling point and boiling range: 100 °C
- Flash point:
- Flammability (solid, gas):
- · Decomposition temperature:
- · Auto-ignition temperature:
- Explosive properties:
- Explosion limits: Lower:

Colourless Odourless

Fluid

- Not determined.
- Not determined.
- 0°C Not applicable.
  - Not applicable.
  - Not determined.
  - Product is not selfigniting.
  - Product does not present an explosion hazard.
  - Not determined.

#### Page 5/12

#### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 2.0

Revision: 02.06.2021

	(Contd. of page
Upper:	Not determined.
· Vapour pressure at 20 °C:	23 hPa
<ul> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	1 g/cm <sup>3</sup> Not determined. Not determined. Not determined.
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
• Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: Water:	96.2 %
Solids content:	0.7 %
· 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 Based on available data, the classification criteria are not met.
- · 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.
- · 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 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

Printing date 07.06.2021

Scharlau

Version number 2.0

Revision: 02.06.2021

Trade name: Iron, standard solution 1000 mg/l Fe for AA (iron(III) nitrate nonahydrate in nitric acid 0,5 mol/l)

(Contd. of page 5)

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

- · 12.1 Toxicitv
- · 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

- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

#### **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 · Hazard identification number (Kemler code): 80
- · EMS Number:
- Segregation groups

8 Corrosive substances.

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

3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,

CORROSIVE LIQUID, ACIDIC, INORGANIC,

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

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

(Contd. on page 7)

# Page 7/12

Safety data sheet according to 1907/2006/EC, Article 31

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Printing date 07.06.2021	Version number 2.0	Revision: 02.06.2021
<b>Frade name:</b> Iron, standard solution mol/l)	on 1000 mg/l Fe for AA (iron(III) nitrate	nonahydrate in nitric acid 0,5
Stowage Category     Stowage Code     14.7 Transport in bulk accor     of Marpol and the IBC Code     Transport(Additional inform	Not applicable.	(Contd. of page 6) quarters.
<ul> <li>Transport/Additional inform</li> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Transport category</li> <li>Tunnel restriction code</li> <li>UN "Model Regulation":</li> </ul>	The MISS 5L 3 E UN 3264 CORR	OSIVE LIQUID, ACIDIC, .S. (NITRIC ACID, FERRIC
SECTION 15: Regulator	w information	
mixture • Directive 2012/18/EU • Named dangerous substance • REGULATION (EC) No 1907/ • DIRECTIVE 2011/65/EU on	ironmental regulations/legislation s res - ANNEX I None of the ingredients in 2006 ANNEX XVII Conditions of restrict the restriction of the use of certain	is listed. ction: 3
electrical and electronic equ None of the ingredients is liste • 15.2 Chemical safety assess	-	has been carried out.
	prmation our present knowledge. However, this s es and shall not establish a legally valid	
H272 May intensify fire; oxidis H314 Causes severe skin burn Classification according to	ns and eye damage. <b>Regulation (EC) No 1272/2008</b> re is generally based on the calculatior	n method using substance data
Department issuing SDS: pro- Contact: msds@scharlab.com     Abbreviations and acronym     RID: Règlement international conce Concerning the International Transpo ICAO: International Civil Aviation Org ADR: Accord relatif au transport inter the International Carriage of Dangero IMDG: International Maritime Code fo IATA: International Air Transport Asso GHS: Globally Harmonised System o EINECS: European Inventory of Exist	oduct safety department n s: ernant le transport des marchandises dangere rt of Dangerous Goods by Rail) anisation mational des marchandises dangereuses par ro us Goods by Road) ur Dangerous Goods pociation f Classification and Labelling of Chemicals ing Commercial Chemical Substances	
ELINCS: European List of Notified Ch CAS: Chemical Abstracts Service (div PBT: Persistent, Bioaccumulative and vPvB: very Persistent and very Bioacc Ox. Liq. 2: Oxidizing liquids – Categor Skin Corr. 1A: Skin corrosion/irritation Skin Irrit. 2: Skin corrosion/irritation –	vision of the American Chemical Society) d Toxic cumulative ry 2 n – Category 1A	(Contd. on page 8)
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# Scharlau

The wise choice

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# 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: Iron, standard solution 1000 mg/I Fe for AA (iron(III) nitrate nonahydrate in nitric acid 0,5 mol/l)

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

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The wise choice

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 2.0

Revision: 02.06.2021

**Trade name:** Iron, standard solution 1000 mg/I Fe for AA (iron(III) nitrate nonahydrate in nitric acid 0,5 mol/I)

(Contd. of page 8)

#### Annex: Exposure scenario 1

- 1 Short title of the exposure scenario Exposure scenario: Nitric acid 65% Industrial use
- · Sector of Use
- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- Product category PC21 Laboratory chemicals
- Process category PROC15 Use as laboratory reagent
- · Environmental release category
- ERC2 Formulation into mixture
- ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- · 2 Conditions of use
- · Duration and frequency 8hrs (full working shift).
- · Physical parameters

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- Other operational conditions Observe the general safety regulations when handling chemicals.
- Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting worker exposure
- Avoid contact with eyes. Avoid contact with the skin.

Keep away from combustible material.

- Other operational conditions affecting consumer exposure No special measures required.
- Other operational conditions affecting consumer exposure during the use of the product The consumer has to be advised of warnings regarding overdosage in the instructions for use. The directions for use must indicate the limits for proper use.
- · Risk management measures

· Worker protection

Organisational protective measures

Surround with a dyke storage facilities to prevent contamination of soil and water in case of spillage Handle in a fume cupboard or under extract ventilation

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

Provide a good standard of controlled ventilation (10 to 15 air changes per hour) Keep away from food, beverages and animal feed.

Provide Internal Plant Instruction.

Technical protective measures

Ensure that suitable extractors are available on processing machines Use only in well ventilated areas.

Store in cool, dry place in tightly closed receptacles.

Only handle and refill product in closed systems.

Carry out filling operations only at sites with extractors available.

#### · Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Tightly sealed goggles Protective gloves

The glove gioves

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.

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Scharlau

Safety data sheet according to 1907/2006/EC, Article 31

Tra		
	nde name: Iron, standard solution 1000 mg/l Fe for AA (iron(III) nitrate nonahydrate in nitric acid mol/l)	0,5
	(Contd. of p	bage 9)
	Selection of the glove material on consideration of the penetration times, rates of diffusion an	nd the
	degradation Wear suitable gloves (tested to EN374)	
	If ventilation is inadequate, use respirator that will protect against dust/mist. Filter P2SL (EN	143
	140), acid gas filter (Type E). Self-contained respirator (DIN EN 133).	,
	Detailed measures on hand protection according to Safety Data Sheet, section 8.	
	Measures for consumer protection Ensure adequate labelling.	
	Environmental protection measures     Air No special measures required.	
	· Water	
	Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisat	tion is
	required.	
	Do not allow to reach ground water, water bodies or sewage system, not even in small quantitie	es.
	Do not allow to reach sewage system. • <b>Soil</b> No special measures required.	
	• Disposal measures	
	Disposal must be made according to official regulations.	
	Ensure that waste is collected and contained.	
	<ul> <li>Disposal procedures</li> <li>Must not be disposed together with household garbage. Do not allow product to reach se</li> </ul>	Wado
	system.	waye
	· Waste type	
	Partially emptied and uncleaned packaging	
ne i	Aqueous solution	
	Uncleaned packaging	
	• <b>3</b> - <b>Exposure estimation</b> The MEASE tool has been used to estimate workplace exposures unless otherwise indicated.	<u>S</u> ()
	• Worker (oral)	e
	No significant oral exposure	
	The calculated value is smaller than the DNEL.	
	• Worker (dermal) No significant dermal exposure	
)	The calculated value is smaller than the DNEL.	
	Worker (inhalation) The calculated value is smaller than the DNEL.	
	Environment	
	Detailed information on the estimation of the environmental exposure can be found at h ecb.jrc.ec.europa.eu/euses/.	http://
	• 4 - Guidance for downstream users	
	Whether the downstream user acts within the scope of the Exposure Scenario can be ve	rified
	based on the information in sections 1 to 8.	
	Whether the downstream user uses the substance / the mixture within the scope of the Experimentary Scenario can be determined by means of a technical assessment.	osure
	For the risk assessment, the tools recommended by ECHA can be used.	
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according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

#### Version number 2.0

Revision: 02.06.2021

 Trade name:
 Iron, standard solution 1000 mg/l Fe for AA (iron(III) nitrate nonahydrate in nitric acid 0,5 mol/l)

 (Contd. of page 10)

#### Annex: Exposure scenario 2

- 1 Short title of the exposure scenario Exposure scenario: Nitric acid 65% Laboratory use
- · Sector of Use
- SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Product category PC21 Laboratory chemicals
- Process category PROC15 Use as laboratory reagent
- · Environmental release category
- ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
- ERC8e Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)
- · 2 Conditions of use
- · Duration and frequency 8hrs (full working shift).
- · Physical parameters
- The data on the physical chemical properties in the Exposure Scenario is based on the properties of the preparation.
- · Physical state Fluid
- Concentration of the substance in the mixture The substance is main component.
- Other operational conditions Observe the general safety regulations when handling chemicals.
- Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting worker exposure
- Avoid contact with eyes.
- Avoid contact with the skin.
- Keep away from combustible material.
- · Other operational conditions affecting consumer exposure No special measures required.
- Other operational conditions affecting consumer exposure during the use of the product The consumer has to be advised of warnings regarding overdosage in the instructions for use. The directions for use must indicate the limits for proper use.
- · Risk management measures
- · Worker protection
- Organisational protective measures

Surround with a dyke storage facilities to prevent contamination of soil and water in case of spillage Handle in a fume cupboard or under extract ventilation

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

Provide a good standard of controlled ventilation (10 to 15 air changes per hour) Keep away from food, beverages and animal feed.

#### Provide Internal Plant Instruction.

#### Technical protective measures

Ensure that suitable extractors are available on processing machines

- Use only in well ventilated areas.
- Store in cool, dry place in tightly closed receptacles.
- Only handle and refill product in closed systems.
- Carry out filling operations only at sites with extractors available.

#### Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Tightly sealed goggles

Protective gloves

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

(Contd. on page 12)

Printing date 07.06.2021	Version number 2.0	Revision: 02.06.2021
Trade name: Iron, standard solu mol/l)	ution 1000 mg/I Fe for AA (iron(III) nitrate	nonahydrate in nitric acid 0,5
Due to missing tests no red	commendation to the glove material ca	(Contd. of page 11) n be given for the product/ the
preparation/ the chemical m Selection of the glove mater degradation	ixture. rial on consideration of the penetration t	imes, rates of diffusion and the
Wear suitable gloves (tested If ventilation is inadequate,	d to EN374) use respirator that will protect against o ). Self-contained respirator (DIN EN 133)	
Detailed measures on hand	protection according to Safety Data She rotection Ensure adequate labelling.	
Air No special measures rec     Water	quired.	
required.	uction of wastewater into wastewater trea d water, water bodies or sewage system,	·CE
Do not allow to reach sewag • <b>Soil</b> No special measures re	je system.	e che
Disposal measures     Disposal must be made according to the second		
Disposal procedures     Must not be disposed toge     system.	ther with household garbage. Do not a	allow product to reach sewage
• Waste type Partially emptied and unclea	aned packaging	
Aqueous solution Uncleaned packaging • <i>3 - Exposure estimation</i>	C	G che
The MEASE tool has been u • <i>Worker (oral)</i> No significant oral exposure	used to estimate workplace exposures ur	less otherwise indicated.
The calculated value is smaller Worker (dermal)	ller than the DNEL.	
No significant dermal expose The calculated value is smale Worker (inhalation) The ca		
• Environment Detailed information on th	e estimation of the environmental exp	oosure can be found at http://
ecb.jrc.ec.europa.eu/euses/. • <b>4 - Guidance for downstre</b> Whether the downstream u		sure Scenario can be verified
based on the information in a Whether the downstream u Scenario can be determined	sections 1 to 8. ser uses the substance / the mixture wi by means of a technical assessment.	thin the scope of the Exposure
For the risk assessment, the	e tools recommended by ECHA can be us	sed.
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	C	sitse cr
, oice		ine m