Tintometer[®] Group Water Testing



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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.12.2023

Version number 1

Revision: 04.12.2023

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

- 1.1 Product identifier
- · Product name: SPADNS AF Reagent
- · Catalog number: 424198, 471341, 471342, 471343
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation: Reagent for water analysis
- · 1.3 Details of the supplier of the safety data sheet
- Supplier: Tintometer GmbH Schleefstraße 8-12 44287 Dortmund Made in Germany www.lovibond.com

The Tintometer Limited Lovibond[®] House Sun Rise Way Amesbury Wiltshire SP4 7GR United Kingdom

- Informing department: e-mail: sds@lovibond.com Product Safety Department
- **1.4 Emergency telephone number:** +44 1235 239670 Languages: English

SECTION 2: Hazards identification

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



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

- The product is classified and labelled according to the GB CLP regulation.
- · Hazard pictograms



- · Signal word Warning
- · Hazard statements
- H290 May be corrosive to metals.
- Precautionary statements
 P234 Keep only in original packaging.
 P390 Absorb spillage to prevent material damage.
- 2.3 Other hazards No further relevant information available.

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· Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• **Description:** aqueous solution

 Dangerous components: 		
CAS: 7647-01-0	hydrochloric acid	5–<10%
EINECS: 231-595-7	♦ Met. Corr.1, H290; Skin Corr. 1B, H314; ♦ STOT SE 3, H335	
Index No: 017-002-01-X	Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 %	
Reg.nr.: 01-2119484862-27-XXXX	Skin Irrit. 2; H315: 10 % ≤ C < 25 %	
	Eye Irrit. 2; H319: 10 % ≤ C < 25 %	
	STOT SE 3; C ≥ 10 %	

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 Instantly remove any clothing soiled by the product.
- After inhalation Supply fresh air; consult doctor in case of symptoms.
- After skin contact Instantly wash with water and soap and rinse thoroughly.
- After eye contact
- Rinse opened eye for several minutes under running water (at least 15 min). If symptoms persist, consult doctor.
- · After swallowing
- Rinse out mouth and then drink 1-2 glasses of water.
- In case of persistent symptoms consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed: irritating effects possible
- 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 Use fire fighting measures that suit the environment.
- 5.2 Special hazards arising from the substance or mixture
- The product is not combustible.
- Formation of toxic gases is possible during heating or in case of fire.
- Can be released in case of fire:
- Hydrogen chloride (HCI)
- 5.3 Advice for firefighters Protective equipment:
- Wear self-contained breathing apparatus.
- Wear full protective suit.
- Additional information

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Ambient fire may liberate hazardous vapours.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures
- · Advice for non-emergency personnel:
- Wear protective equipment. Keep unprotected persons away.
- Ensure adequate ventilation
- Advice for emergency responders: Protective equipment: see section 8

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· 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies. Dilute with much water.

• 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

Neutralize with diluted sodium hydroxide solution or by throwing on lime sand, lime or sodium carbonate. Absorb with liquid-binding material (sand, diatomite, universal binders).

Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling
- · Advice on safe handling: No special precautions necessary if used correctly.
- · Hygiene measures:

Take off immediately all contaminated clothing. Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke when using this product.

- · 7.2 Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and containers: Store in cool location.
- Keep only in original packaging.
- Information about storage in one common storage facility: Store away from metals.
- Do not store together with alkalis (caustic solutions).
- Further information about storage conditions: Protect from heat and direct sunlight. Protect from the effects of light.
- Protect from humidity and keep away from water.
- Recommended storage temperature: 20°C +/- 5°C
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

CAS: 7647-01-0 hydrochl	alues that require monitoring at the workplace: oric acid
	Short-term value: 8 mg/m³, 5 ppm Long-term value: 2 mg/m³, 1 ppm (gas and aerosol mists)
IOELV (European Union)	Short-term value: 15 mg/m³, 10 ppm Long-term value: 8 mg/m³, 5 ppm
• Regulatory information WEL (Great Britain): EH40	

IOELV (European Union): (EU) 2019/1831

DNELs

Derived No Effect Level (DNEL)

CAS: 7647-01-0 hydrochloric acid

Inhalative	DNEL	15 mg/m ³ (Worker / acute / local effects)	
		8 mg/m³ (Worker / long-term / local effects)	

Recommended monitoring procedures:

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

· PNECs

Predicted No Effect Concentration (PNEC)

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0.036 mg/l (Fresh water)	
Additional information: The lists that were valid during	ng the compilation were used as basis.
8.2 Exposure controls	
Engineering measures:	
Technical measures and appropriate working operatio See item 7.	ns should be given priority over the use of personal protective equipmer
Individual protection measures, such as personal	protective equipment
	the workplace, depending on concentration and quantity of the hazardou
substances handled.	
Eye/face protection	
Safety glasses	
use against the effects of fumes / dust Use safety glasses that have been tested and approve	ed in accordance with government standards such as EN 166.
Hand protection	
Preventive skin protection by use of skin-protecting ag	
After use of gloves apply skin-cleaning agents and ski	n cosmetics.
Material of gloves	
nitrile rubber, NBR	
Recommended thickness of the material: \geq 0.11 mm Penetration time of glove material	
Value for the permeation: Level = 1 (< 10 min)	
	e manufacturer of the protective gloves and has to be observed.
Other skin protection (body protection): Protective	
Breathing equipment: Use breathing protection again	
Recommended filter device for short term use: Filt	er E
SECTION 9: Physical and chemical prope 9.1 Information on basic physical and chemical pro-	erties
SECTION 9: Physical and chemical prope 9.1 Information on basic physical and chemical pro Physical state	erties operties Fluid
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Product name: SPADNS AF Reagent

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CAS: 7647-01-0 hydrochloric acid

PNEC 0.036 mg/l (Sewage treatment plant) 0.036 mg/l (Marine water)

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· Relative gas density	Not determined.
· Particle characteristics	Not applicable (liquid).
· 9.2 Other information	
· Information with regard to physical hazard classes	6
· Corrosive to metals	May be corrosive to metals.
· Metals that are corroded by the substance or mixte	ure Information on incompatible materials can be found in Sections 7 and
-	10.
· Other safety characteristics	
· Oxidising properties:	none
Additional information	
· Solids content:	≤ 0.1 %
· Solvent content:	
· Organic solvents:	0 %
· Water:	> 90 %

SECTION 10: Stability and reactivity

· 10.1 Reactivity see section 10.3

· 10.2 Chemical stability Stable at ambient temperature (room temperature).

10.3 Possibility of hazardous reactions

Corrosive action on metals

Reacts with metals forming hydrogen (Danger of explosion in case of large amounts!)

Reacts with alkali (lyes) • **10.4 Conditions to avoid** No further relevant information available.

- 10.5 Incompatible materials:
- metals

alkali metals

aluminium

· 10.6 Hazardous decomposition products: see section 5

SECTION 11: Toxicological information

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

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:	
CAS: 7647-01-0 hydrochloric acid	
Inhalative LC50 3124 ppm / 1h (rat) (RTECS,V, pure)	
 Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. 	

· Information on components:

CAS: 7647-01-0 hydrochloric acidIrritation of skinOECD 404(rabbit: burns)Irritation of eyesOECD 492(rabbit: burns)

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· Information on components:

CAS: 7647-01-0 hydrochloric acid

Sensitisation OECD 406 (negative) (EPA OPP 81-6: Guinea pig maximisation test)

· 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 (specific target organ toxicity) -single exposure Based on available data, the classification criteria are not met.

• STOT (specific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met.

• Aspiration hazard Based on available data, the classification criteria are not met.

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Information on likely routes of exposure

Exposure to hydrochloric acid is possible during occupational handling due to contact with the skin and inhalation of vapors. The main intake pathway is considered to be via the respiratory tract.

Gastrointestinal tract: Specific kinetic studies are not available. They are considered not necessary because gastric juice already contains a high concentration of hydrochloric acid which is physiologically conditioned. Following ingestion, local effects are therefore of priority. [GESTIS]

Additional toxicological information:

CAS: 7647-01-0 hydrochloric acid

(source: GESTIS)

Main toxic effects

Acute: Irritation and corrosion to the eyes, airways and skin, danger of severe damage to the eyes and lungs, following ingestion, concentration-dependent damage to the gastrointestinal tract Chronic: Airway diseases, damage to the teeth, gastrointestinal disorders

Further Information:

The acute action of hydrochloric acid is based on the locally damaging effects on contacted tissues which are primarily dependent on the concentration. Following repeated contact with the skin, even diluted hydrochloric acid can cause skin damage (reddening, drving, fissures, dermatitis). The critical effect following repeated inhalative exposure is irritation to the respiratory tract.

· 11.2 Information on other hazards

• Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

Other information

According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 7647-01-0 hydrochloric acid

EC50 20.5 mg/l/96h (bluegill) (OECD 203) (Merck)

Other information:

Toxic for fish:

HCl > 25 ma/l

- 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.
- 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- Forms corrosive mixtures with water even if diluted.
- Harmful effect due to pH shift.

Avoid transfer into the environment.

Water hazard:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to disposers of hazardous waste.

European waste catalogue

16 05 06* laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals

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Product name: SPADNS AF Reagent

· Uncleaned packagings:

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- Recommendation: Disposal must be made according to official regulations.
 Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information		
14.1 UN number or ID number		
ADR, IMDG, IATA	UN1789	
14.2 UN proper shipping name		
ADR	1789 HYDROCHLORIC ACID mixture	
IMDG	HYDROCHLORIC ACID	
ΙΑΤΑ	HYDROCHLORIC ACID, mixture	
14.3 Transport hazard class(es)		
ADR		
a a a a a a a a a a a a a a a a a a a		
Class	8 (C1) Corrosive substances.	
Label	8	
Class	8 Corrosive substances.	
Label	8	
14.4 Packing group ADR, IMDG, IATA	II	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Warning: Corrosive substances.	
Kemler Number:	80	
EMS Number:	F-A,S-B	
Segregation groups	(SGG1) Acids	
Stowage Category	B CM/2 Class of living substant	
Stowage Code Segregation Code	SW2 Clear of living quarters. SG36 Stow "separated from" SGG18-alkalis.	
	SG49 Stow "separated from" SGG6-cyanides	
14.7 Maritime transport in bulk according		
instruments	Not applicable.	
Transport/Additional information:		
ADR		
Limited quantities (LQ)	1L	
Excepted quantities (EQ)	Code: E2	
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	
Transport category	2	
Tunnel restriction code	E	
MDG Limited quantities (LQ)	1L	
	·	(Contd. on pa

10%

3

3

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

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Product name: SPADNS AF Reagent

· Excepted quantities (EQ)

Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

SECTION 15: Regulatory information

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

· Poisons Act UK

· Regulated explosives precursors

The concentration of the substance is less than the stated mass percentage and should still be considered as reportable substance:

CAS: 7647-01-0 hydrochloric acid

Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Regulation (EU) 2019/1148 on the marketing and use of explosives precursors not regulated

· Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)

None of the ingredients is listed.

• Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

CAS: 7647-01-0 hydrochloric acid

 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

CAS: 7647-01-0 hydrochloric acid

· Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

None of the ingredients is listed.

• REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

None of the ingredients is listed.

• Substances of very high concern (SVHC) according to REACH, Article 57

This product does not contain any substances of very high concern above the legal concentration limit of $\ge 0.1\%$ (w / w). Substances of very high concern (SVHC) according to UK REACH

see item 3 SVHC

This product does not contain any substances of very high concern above the legal concentration limit of \geq 0.1% (w / w).

Directive 2012/18/EU (SEVESO III):

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Information about limitation of use: Not required.

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

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

• **Training hints** Provide adequate information, instruction and training for operators.



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Product name: SPADNS AF Reagent

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Relevant phrases
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
Abbreviations and acronyms:
OECD: Organisation for Economic Co-operation and Development
STOT: specific target organ toxicity
SE: single exposure
RE: repeated exposure
EC50: half maximal effective concentration
IC50: half maximal inhibitory concentration
NOEL or NOEC: No Observed Effect Level or Concentration
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous
Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of
Dangerous Goods by Rail)
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)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Met. Corr.1: Corrosive to metals – Category 1
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· Sources

Data arise from safety data sheets, reference works and literature. RTECS (Registry of Toxic Effects of Chemical Substances) GESTIS- Stoffdatenbank (Substance Database, Germany)

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