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Material Safety Data Sheet

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10.00

According to 91/155 EEC

Printing date 02.06.2005

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Reviewed on 02.06.2005

1 Identification of substance:

· Product details: Reagent for water analysis

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N 10 10 10

- · Product name: SPADNS Reagent
- · Catalog number: 467481, 4467481
- Supplier: Tintometer GmbH Schleefstraße 8a-12 D - 44287 Dortmund Made in Germany

phone: +49(0)231 94510-0

- · Informing department: Department Laboratory
- Emergency information: Poison Center Berlin, Germany phone: +49(0)30 19240

2 Composition/Data on components:

• Description: Mixture of the substances listed below with harmless additions.

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Dangerous components:

. 8 I			
CAS: 7647-01-0	hydrogen chloride	🔁 C; R 34-37	10-20%
EINECS: 231-595-7			
EC Number: 017-002-01-X			

• Additional information For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· Hazard designation:



Xi Irritant

· Information pertaining to particular dangers for man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 36/37/38 Irritating to eyes, respiratory system and skin.

· Classification system

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4 First aid measures

- \cdot General information Instantly remove any clothing soiled by the product.
- · After inhalation Supply fresh air and call for doctor for safety reasons.
- After skin contact Instantly rinse with water.
- · After eye contact
- Rinse opened eye for several minutes under running water.

Call a doctor immediately.

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After swallowing Rinse out mouth and then drink plenty of water. Seek medical treatment.
The following symptoms may occur: after inhalation: breathing difficulty coughing mucous membrane irritation after swallowing: gastric or intestinal trouble

5 Fire fighting measures

• Suitable extinguishing agents Use fire fighting measures that suit the environment.

- Special hazards caused by the material, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire. Hydrogen chloride (HCl)
- · Protective equipment: Wear self-contained breathing apparatus.
- · Additional information
- Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
- Collect contaminated fire fighting water separately. It must not enter drains.
- Ambient fire may liberate hazardous vapours.

6 Accidental release measures

· Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Use breathing protection against the effects of fumes/dust/aerosol.

- Measures for environmental protection: Do not allow product to reach sewage system or water bodies.
- · Measures for cleaning/collecting:
- 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).

7 Handling and storage

- · Handling
- · Information for safe handling: Prevent formation of aerosols.
- · Information about protection against explosions and fires: The product is not flammable
- · Storage
- · Requirements to be met by storerooms and containers: Store in cool location.
- · Information about storage in one common storage facility: Store away from metals.
- · Further information about storage conditions:
- Keep container tightly sealed.
- Store under dry conditions.
- Protect from humidity and keep away from water.
- Protect from the effects of light.
- Storage class Not required.

8 Exposure controls and personal protection

• Additional information about design of technical systems: No further data; see item 7.

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	(Contd. of page 2)
· Components with limit	values that require monitoring at the workplace:
7647-01-0 hydrogen ch	loride
OES (Great Britain)	Short-term value: 8 mg/m ³ , 5 ppm
	Long-term value: 2 mg/m ³ , 1 ppm
	gas and aerosol mists; ILV
TLV (European Union)	Short-term value: 15 mg/m ³ , 10 ppm
	Long-term value: 8 mg/m ³ , 5 ppm
· Additional information	The lists that were valid during the compilation were used as basis.
· Personal protective equ	uipment
· General protective and	
	iffs, beverages and food.
Take off immediately al	
	ks and at the end of the work.
Do not inhale gases / fur	
Avoid contact with the e	
	Use breathing protection against the effects of fumes/dust/aerosol.
	evice for short term use: Filter B
 Protection of hands: 	
	o be impermeable and resistant to the product/ the substance/ the preparation.
	y skin-cleaning agents and skin cosmetics.
 Material of gloves 	
	able gloves does not only depend on the material, but also on further marks of quality and varies from
	cturer. As the product is a preparation of several substances, the resistance of the glove material can not
	e and has therefore to be checked prior to the application.
nitrile rubber, NBR	
	s of the material: $\geq 0.11 \text{ mm}$
 Penetration time of glo 	
	time has to be found out by the manufacturer of the protective gloves and has to be observed.
Value for the permeation	
• Eye protection: Tightly	^r sealed safety glasses.

• Body protection: Protective work clothing.

Form:	Fluid	
Colour:	Light red	
Odour:	Odourless	
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	85°C	
Flash point:	Not applicable	
Self-inflammability:	Product is not selfigniting.	
Danger of explosion:	Product is not explosive.	
Density	Not determined	
Solubility in / Miscibility with		
Water:	Fully miscible	
pH-value at 20°C:	0.4	
Solvent content:		
Organic solvents:	0.0 %	
Water:	< 90 %	

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· Solids content:

< 1 %

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat.

- · Materials to be avoided:
- alkali metals
- alkalis
- metals
- aluminium
- · Dangerous reactions Reacts with metals forming hydrogen
- · Dangerous products of decomposition:
- Hydrogen chloride (HCl)
- see chapter 5

11 Toxicological information

• Acute toxicity: Quantitative data on the toxicity of the preparation are not available.

· LD/LC50 values that are relevant for classification:

7647-01-0 hydrogen chloride

Inhalative LC50 3124 ppm / 1h (rat)

- · Primary irritant effect:
- \cdot on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritant effect.
- Sensitization: No sensitizing effect known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological information:

- · Information about elimination (persistence and degradability):
- Other information: Quantitative data on the ecological effect of this product are not available.
- · Ecotoxical effects:
- · Acquatic toxicity:

7647-01-0 hydrogen chloride

LC 50 862 mg/l (Leuciscus idus)

- Remark:
- Toxic for fish:

 $HCl > 25 \ mg/l$

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 bodies or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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13 Disposal considerations

· Product:

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

· European waste catalogue

16 05 07 discarded inorganic chemicals consisting of or containing dangerous substances

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

^{*}14 Transport information

· Land transport ADR/RID (cross-border)



· ADI	R/RID)-GGVS/E	Class:	8 (C1) Corrosive substances.	

· Kemler Number:	80
· UN-Number:	1789

- · Packaging group: III
- · Label8· Designation of goods:1789 HYDROCHLORIC ACID, solution
- · Maritime transport IMDG:



· IMDG Class:	8
· UN Number:	1789
· Label	8
· Packaging group:	III
· EMS Number:	F-A,S-B
• Marine pollutant:	No
· Correct technical name:	HYDROCHLORIC ACID, solution

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class:	8
· UN/ID Number: · Label	1789 8
· Packaging group:	III
· Correct technical name:	HYDROCHLORIC ACID, solution

15 Regulatory information

· Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

• Code letter and hazard designation of product: Xi Irritant

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· Risk phrases:

36/37/38 Irritating to eyes, respiratory system and skin.

· Safety phrases:

23 Do not breathe fumes/aerosol.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37 Wear suitable gloves.

60 This material and its container must be disposed of as hazardous waste.

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.

· Relevant R-phrases

34 Causes burns.

37 Irritating to respiratory system.

· Department issuing data specification sheet: Technical Department

** Data compared to the previous version altered.