

NORTH CENTRAL LABORATORIES

www.nclabs.com Revision Date: 02/05/2015

Safety Data Sheet

According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name SPADNS Reagent (Acid Zirconyl-SPADNS Reagent)

NCL Catalog Number S-78

Product Description Laboratory chemical, APHA for Fluoride.

Supplier

NCL of Wisconsin, Inc. **Telephone:** 1-800-648-7836 **Fax:** 715-449-2454 P.O. Box 8 **Emergency Contact:** 1-800-424-9300 (Chemtrec)

Birnamwood, WI 54414 Email: nclabs@nclabs.com

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion Category 1A
Serious Eye Damage Category 1

Specific Target Organ Toxicity Single Exposure Category 3

Signal Word Danger

Hazard Statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary Statements

P260 Do not breath mist/vapors/spray.

P264 Wash exposed skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor.

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 or doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to comply with local, state and federal regulations.

Other Hazards Not Contributing

to the Classification

None under normal conditions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical IdentityNot applicableCommon NameNot applicable

Mixture

Name	CAS#	Approximate %
Water	7732-18-5	>85
Hydrochloric Acid	7647-01-0	14
Zirconyl Chloride Hydrate	13520-92-8	< 0.1
SPADNS Powder	23647-14-5	< 0.1

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General First Aid Measures Never give anything by mouth to an unconscious person. Seek medical advice if

you feel unwell.

If Inhaled Remove person to fresh air and keep comfortable for breathing. Allow victim to

rest. Call a POISON CENTER or doctor if you feel unwell.

In Case of Skin Contact Remove all contaminated clothing. Rinse skin with water/shower. Call a

POISON CENTER or doctor if you feel unwell.

In Case of Eye Contact Rinse carefully with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Call a POISON CENTER or doctor if you feel

unwell.

If Swallowed Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if

vou feel unwell.

Most Important Symptoms/Effects Acute and Delayed

No additional information available.

Indication of Immediate Medical Attention and Special Treatment Needed

Seek medical attention if exposed.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media Foam. Dry powder. Sand. Carbon dioxide. Water spray.

Unsuitable Extinguishing Media Do not use high pressure water stream.

<u>Special Hazards Arising from the Chemical</u>

Thermal decomposition generates corrosive vapors.

<u>Special Protective Actions for Fire-Fighters</u>

Wear self-contained breathing apparatus and protective clothing. Keep exposed

containers cool with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment (see section 8). Evacuate area of non-essential

personnel. Eliminate ignition sources. Ventilate area.

Environmental Precautions Prevent entry to surface and ground waters.

Methods and Materials for Containment Clean up spill v

and Cleaning Up

Clean up spill with inert absorbent material. Collect spillage. Store away from other materials. Ensure compliance with local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other

exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Conditions for Safe Storage Including any Incompatibilities

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Store away from sunlight, which can contribute to instability. Store away from bases, amines, alkali metals, metals, hexalithium disilicide, permanganates, e.g. potassium

permanganate, and fluorine.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters Not applicable

Appropriate Engineering ControlsMaterial should be handled or transferred in a fume hood or with equivalent ventilation.

Maintain eye-wash fountain and quick-drench facilities in work area.

<u>Individual Protection Measures</u> Avoid all unnecessary exposure.

Eye/Face Protection Use chemical safety goggles and /or a full face shield where splashing is possible.

Contact lenses should not be worn when working with this material.

Skin Protection Rubber or neoprene gloves and additional protection including impervious boots, apron,

or coveralls, as needed in areas of unusual exposure to prevent skin contact.

Respiratory Protection Wear appropriate mask.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

Color Light red

Odor Not determined

Odor Threshold Not determined

pH 0.4

Melting Point/Freezing Point Not determined Not determined **Initial Boiling Point and Boiling Range Flash Point** Not determined **Evaporation Rate** Not determined Flammability (Solid, Gas) Not determined **Upper/Lower Flammability/Explosive Limits** Not determined Not determined Vapor Pressure **Vapor Density** Not determined

Relative Density 1.1

Solubility Soluble in water.

Partition Coefficient: n-octanol/water Not determined

Auto-Ignition Temperature Not determined

Decomposition Temperature Not determined

Viscosity Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity No data available.

Chemical Stability Stable under ordinary conditions of use and storage.

Possibility of Hazardous ReactionsNo data available.

Conditions to Avoid Extremely high or low temperatures. Heat and sunlight can contribute to

instability.

Incompatible Materials Bases, amines, alkali metals, metals, hexalithium disilicide, permanganates, e.g.

potassium permanganate, and fluorine.

Hazardous Decomposition ProductsNo data available.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity Not classified

Hydrochloric Acid, 37% w/w (7647-01-0)		
LD50 oral rat	700 mg/kg	
LD50 dermal rabbit	5010 mg/kg	
Water (7732-18-5)		
LD50 oral rat	≥90000 mg/kg	

Skin Corrosion/IrritationCauses severe skin burns.Serious Eye Damage/IrritationCauses serious eye damage.

Not classified Respiratory or Skin Sensitization Germ Cell Mutagenicity Not classified Carcinogenicity Not classified Reproductive Toxicity Not classified

Specific Target Organ Toxicity (Single

Exposure)

May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated

Exposure)

Not classified

Aspiration Hazard

and Symptoms

Not classified

Potential Adverse Human Health Effects

No data available

Other Information Not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Toxicity to fish LC50 - Gambusia affinis, 282 mg/l: 96 h

Persistence and Degradability Not applicable **Bioaccumulative Potential** Not applicable Mobility in Soil Not applicable **Other Adverse Effects** Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS

Methods of Disposal

Disposal Recommendations Dispose of contents/containers in accordance with local, state, and federal

regulations.

Other Information Avoid release to the surrounding environment.

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SECTION 14: TRANSPORT INFORMATION

Packing Group

UN Number 1789

UN Shipping Name Hydrochloric Acid solution

Transport Hazard Class(es) 8

Environmental Hazards Not applicable **Transport in Bulk** Not applicable

Other Precautions Not applicable

SECTION 15: REGULATORY INFORMATION

Hydrochloric Acid 37% w/w (7647-01-0)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
RQ (Reportable Quantity)	5000 lb		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard		
Water (7732-18-5)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			

SECTION 16: OTHER INFORMATION

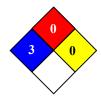
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Health Hazard 3: Short exposure could cause serious temporary or residual

injury even.

Fire Hazard 0: Materials that will not burn.

Reactivity/Instability 0: Normally stable.



HMIS III Rating

Health 3: Major injury likely unless prompt action is taken

and medical treatment is given.

Flammability 0: Materials that will not burn.

Physical Hazard 0: Materials that are normally stable.

Personal Protection C



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END OF SAFETY DATA SHEET