

SAFETY DATA SHEET

Swan Sodium Electrode Etching Kit - Etching Kit B

SECTION 1: Identification

Product identifier

Trade name

Swan Sodium Electrode Etching Kit - Etching Kit B

Product no.

A-87.729.010

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Cleaning product

Uses advised against

No special

Details of the supplier of the safety data sheet

Company and address

Swan Analytical USA Inc.

225 Larkin Drive Unit 4

Wheeling, IL 60090

United States of America

Phone (847) 229 1290

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www.swan-analytical-usa.com

Contact person

Kevin Jander

E-mail

support@swan-analytical-usa.com

SDS date

2021-09-30

SDS Version

3.0

Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL®

(triage.webpoisoncontrol.org) to get specific guidance for your case

See also section 4 "First aid measures".

SECTION 2: Hazard(s) identification

OSHA/HCS status

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture

Not classified according to HCS (29 CFR 1910.1200)

Label elements

Hazard pictogram(s)

Not applicable

Signal word

Not applicable

Hazard statement(s)

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

- Not applicable
- Safety statement(s)
 - General
 -
 - Prevention
 -
 - Response
 -
 - Storage
 -
 - Disposal
 -
- Hazardous substances
 - No special
- Other hazards
 - Additional labelling
 - Not applicable
 - Additional warnings
 - This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: Composition/Information on Ingredients

▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Water	CAS No.: 7732-18-5	95-100%		

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

No special

SECTION 4: First-aid measures

▼ Description of first aid measures

General information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

▼ Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) and continue until irritation stops.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

vomited material.

Burns

Not applicable

Most important symptoms and effects, both acute and delayed

No special

Indication of any immediate medical attention and special treatment needed

No special

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Fire-fighting measures

Extinguishing media

Not applicable

Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

▼ **Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

Fire fighters should wear appropriate personal protective equipment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

No specific requirements

Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

▼ **Methods and material for containment and cleaning up**

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

▼ **Reference to other sections**

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

▼ **Precautions for safe handling**

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

▼ **Conditions for safe storage, including any incompatibilities**

No special conditions required.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

No specific requirements

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

▼ Control parameters

- Acetic acid
- Short term exposure limit (STEL) (ACGIH TLV) (ppm): 15
- Short term exposure limit (STEL) (NIOSH REL) (ppm): 15
- Long term exposure limit (OSHA Table Z-1) (mg/m³): 25
- Long term exposure limit (OSHA Table Z-1) (ppm): 10
- Long term exposure limit (ACGIH TLV) (ppm): 10

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

▼ Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

▼ Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

▼ Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures

Wash hands after use.

Measures to avoid environmental exposure

No specific requirements

Individual protection measures, such as personal protective equipment

Generally

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

▼ Respiratory Equipment

Type	Class	Colour	Standards
No special when used as intended.	-	-	-

▼ Skin protection

Recommended	Type/Category	Standards
No special when used as intended	-	-

▼ Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	0.2 mm	30	EN374



▼ Eye protection

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

Type	Standards
Wear safety glasses with side shields.	EN166



SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state

Liquid

Colour

Colourless

Odour

Sharp/pungent

Odour threshold (ppm)

Testing not relevant or not possible due to nature of the product.

pH

2.4

Density (g/cm³)

Testing not relevant or not possible due to nature of the product.

▼ Viscosity

Testing not relevant or not possible due to nature of the product.

Phase changes

▼ Melting point (°F)

Testing not relevant or not possible due to nature of the product.

▼ Boiling point (°F)

-

Boiling point (°C)

117.00 °C

Vapour pressure

Testing not relevant or not possible due to nature of the product.

Vapour density

Testing not relevant or not possible due to nature of the product.

▼ Decomposition temperature (°F)

Testing not relevant or not possible due to nature of the product.

Data on fire and explosion hazards

▼ Flash point (°F)

Testing not relevant or not possible due to nature of the product.

▼ Ignition (°F)

Testing not relevant or not possible due to nature of the product.

▼ Auto flammability (°F)

Testing not relevant or not possible due to nature of the product.

Explosion limits (% v/v)

Testing not relevant or not possible due to nature of the product.

Solubility

Solubility in water

Soluble

n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

Other information

Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

SECTION 10: Stability and reactivity

Reactivity

No data available

▼ Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

Possibility of hazardous reactions

No special

Conditions to avoid

No special

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

Information on toxicological effects

▼ Acute toxicity

Product/substance	Acetic acid
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	1'120 mg/l ·
Other information	

Product/substance	Acetic acid
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	4h - 11.4 mg/l ·
Other information	

Product/substance	Acetic acid
Test method	
Species	Mouse
Route of exposure	Inhalation
Test	LC50
Result	5'620 ppm ·
Other information	

Product/substance	Acetic acid
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	3'310 mg/kg ·
Other information	

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

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.

Respiratory sensitisation

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

Skin sensitisation

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

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.

Long term effects

No special

Other information

No special

SECTION 12: Ecological information

▼ **Toxicity**

Product/substance	Acetic acid
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	> 1'000 mg/l ·
Other information	

Product/substance	Acetic acid
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	300.82 mg/l ·
Other information	

▼ **Persistence and degradability**

Product/substance	Acetic acid
Biodegradable	Yes
Test method	
Result	

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

Other adverse effects

No special

SECTION 13: Disposal considerations

RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

Specific labelling

Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

Not dangerous goods according to ADR, IATA and IMDG.

DOT

Not applicable

▼IMDG

Not applicable

"MARINE POLLUTANT"

No

▼IATA

Not applicable

Environmental hazards

Not applicable

Special precautions for user

Not applicable

Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

▼U.S. Federal regulations

▼TSCA

Acetic acid is listed in the non-confidential portion

Clean Air Act

None of the components are listed

EPCRA Section 302

None of the components are listed

EPCRA Section 304

None of the components are listed

EPCRA section 313

None of the components are listed

▼CERCLA

Acetic acid is regulated with a Reportable Quantity (RQ) of: 5000 pounds

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

▼ State regulations

California / Prop. 65

None of the components are listed

▼ Massachusetts / Right To Know Act

Acetic acid is listed

▼ New Jersey / Right To Know Act

Acetic acid / Substance number: 0004

Acetic acid is on the Special Health Hazard Substance List

▼ Pennsylvania / Right To Know Act

Acetic acid is listed

Acetic acid is hazardous to the environment (E)

Restrictions for application

Restricted to professional users.

Demands for specific education

No specific requirements

Additional information

Not applicable

Chemical safety assessment

No

Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: Other information

The full text of identified uses as mentioned in section 1

No special

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

SCL = A specific concentration limit.
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TSCA = The Toxic Substances Control Act
TWA = Time weighted average
UN = United Nations
UVCB = Complex hydrocarbon substance
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

Not applicable

The safety data sheet is validated by

Markus Schwendimann

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en