

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

SAFETY DATA SHEET

Swan Sodium Electrode Etching Kit - Etching Kit A

SECTION 1: Identification

Product identifier

Trade name

Swan Sodium Electrode Etching Kit - Etching Kit A

Product no.

A-87.729.010

Other means of identification

CAS No.: 7681-49-4

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

Fax (847) 229 1320

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 considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture

Acute Tox. 3; H301, Toxic if swallowed.

Skin Irrit. 2; H315, Causes skin irritation.

Eye Irrit. 2; H319, Causes serious eye irritation.

Label elements

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Hazard pictogram(s)



Signal word

Danger

▼ Hazard statement(s)

Toxic if swallowed. (H301)

Causes skin irritation. (H315)

Causes serious eye irritation. (H319)

Safety statement(s)

General

-

▼ Prevention

Wear eye protection / protective gloves. (P280)

▼ Response

IF SWALLOWED: Immediately call a POISON CENTER / doctor. (P301+P310)

Specific treatment (see instructions on this label). (P321)

Rinse mouth. (P330)

If eye irritation persists: Get medical advice/attention. (P337+P313)

Storage

-

▼ Disposal

Dispose of contents/container to an approved waste disposal plant. (P501)

Hazardous substances

Sodium fluoride

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

▼ Substances

Product/substance	Identifiers	% w/w	Classification	Note
Sodium fluoride	CAS No.: 7681-49-4	95-100%	Acute Tox. 3, H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319	

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).

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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

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable

Most important symptoms and effects, both acute and delayed

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

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

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds.

Some metal oxides.

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.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

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Methods and material for containment and cleaning up

Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers. 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

Avoid direct contact with the product.
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

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

▼ Exposure controls

Control is unnecessary if the product is used as intended.

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

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

▼ Hygiene measures

Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

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
Use in fumehood	-	-	-

▼ Skin protection

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

▼ Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388



▼ Eye protection

Type	Standards
Wear safety glasses with side shields.	EN166



SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state

Solid

Colour

White

Odour

None

Odour threshold (ppm)

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

pH

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

Density (g/cm³)

2.78

▼ Viscosity

Does not apply to solids.

Phase changes

▼ Melting point (°F)

-

Melting point (°C)

993 °C

▼ Boiling point (°F)

Does not apply to solids.

Vapour pressure

1.40 mmHg (20.00 °C)

Vapour density

Does not apply to solids.

▼ Decomposition temperature (°F)

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

Data on fire and explosion hazards

▼ Flash point (°F)

Does not apply to solids.

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▼ 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)

Does not apply to solids.

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.

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	Sodium fluoride
Test method	
Species	Rat
Route of exposure	Intravenous
Test	LD50
Result	26 mg/kg
Other information	

Product/substance	Sodium fluoride
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	148.5 mg/kg
Other information	

Toxic if swallowed.

▼ Skin corrosion/irritation

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Product/substance	Sodium fluoride
Test method	
Species	Human
Duration	No data available.
Result	Adverse effect observed (Irritating)
Other information	

Causes skin irritation.

▼ Serious eye damage/irritation

Product/substance	Sodium fluoride
Test method	
Species	Rabbit
Duration	24 hours
Result	Adverse effect observed (Moderately irritating)
Other information	

Causes serious eye irritation.

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

Product/substance	Sodium fluoride
Test method	
Species	Human
Route of exposure	
Target organ	Liver
Duration	No data available.
Test	
Result	Irregularities - Based on Human Evidence
Conclusion	Adverse effect observed
Other information	

Product/substance	Sodium fluoride
Test method	
Species	Human
Route of exposure	
Target organ	Lung
Duration	No data available.
Test	
Result	Prolonged or repeated exposure can cause: Damage to the lungs
Conclusion	Adverse effect observed

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Other information

Aspiration hazard

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

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Other information

No special

SECTION 12: Ecological information

▼ Toxicity

Product/substance	Sodium fluoride
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	200 mg/l ·
Other information	

Product/substance	Sodium fluoride
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	NOEC
Result	500 mg/l ·
Other information	

Persistence and degradability

No data available

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

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

SECTION 14: Transport information

This product is within scope of the regulations of transport of dangerous goods.

▼ DOT

UN- or ID number	UN proper shipping name	Labels	Packing group	Tunnel restriction code
1690	SODIUM FLUORIDE	6.1	III	2 (E)

▼ IMDG

UN- or ID number	UN proper shipping name	Labels	Packing group	EmS
1690	SODIUM FLUORIDE	6.1	III	F-A, S-A

"MARINE POLLUTANT"

No

▼ IATA

UN- or ID number	UN proper shipping name	Labels	Packing group
1690	SODIUM FLUORIDE	6.1	III

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

Sodium fluoride 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

Sodium fluoride is regulated with a Reportable Quantity (RQ) of: 1000 pounds

▼ State regulations

California / Prop. 65

None of the components are listed

▼ Massachusetts / Right To Know Act

None of the components are listed

New Jersey / Right To Know Act

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Sodium fluoride / Substance number: 1699

Sodium fluoride is on the Special Health Hazard Substance List

[Pennsylvania / Right To Know Act](#)

Sodium fluoride is listed

Sodium fluoride 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

[Full text of H-phrases as mentioned in section 3](#)

H301, Toxic if swallowed.

H315, Causes skin irritation.

H319, Causes serious eye irritation.

[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

SCL = A specific concentration limit.

STEL = Short-term exposure limits

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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

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

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