## SAFETY DATA SHEET

Version: v1 Revision Date: 2024-01-10 Print Date: 2024-01-17

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

## 1.1 Product identifiers

: Electrode Filling Solution Saturated Sodium Perchl
: E141380
: aladdin
: 7601-90-3

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

Identified uses : Laborat	ory chemicals,Manufacture of substances.
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## 1.3 Company

Company	: ALADDIN SCIENTIFIC CORPORATION
Address	: 14078 Meridian Parkway,
Riverside, CA. 92518	
Telephone	: +1 (833) 552-7181
Fax	: no data available

### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA	: 1-800-424-9300
CHEMTREC®, Outside the USA	:

### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Oxidizing liquids (Category 1), H271

Corrosive to Metals (Category 1), H290

Acute toxicity, Oral (Category 4), H302

Skin corrosion (Sub-category 1A), H314

Serious eye damage (Category 1), H318

Specific target organ toxicity - repeated exposure (Category 2), Thyroid, H373

## 2.2 GHS Label elements, including precautionary statements

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Pictogram	
Signal word	Danger
Hazard statement(s)	
H271	May cause fire or explosion; strong Oxidizer
Precautionary statement(s)	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.
P220	Keep away from clothing and other combustible materials.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and] thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P283	Wear fire resistant or flame retardant clothing.
P302	IF ON SKIN:
P361	Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P306+P360	IF ON CLOTHING: Rinse Immediately contaminated CLOTHING and SKIN with plenty of water before removing clothes.
P370+P378	In case of fire: Use to extinguish.
P371+P380+P375	In case of major fire and large quantities: Evacuate area. Fight fire remotely due
	to the risk of explosion.
P405	Store locked up.
P420	Store separately.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Synonyms	: no data available
Formula	: CIHO4
Molecular weight	: 100.46

#### Component

Classification

Concentration

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#### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance. If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor. In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

If swallowed

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

no data available

#### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Use dry chemical, carbon dioxide or alcohol-resistant foam. Unsuitable extinguishing media no data available

## 5.2 Special hazards arising from the substance or mixture

Chlorine Hydrogen chloride gas Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. Has a fire-promoting effect due to release of oxygen.

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

Use water spray to cool unopened containers.

#### SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal



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protective equipment.Wear chemical impermeable gloves. Ensure adequate ventilation.Remove all sources of ignition. Evacuate personnel to safe areas.Keep people away from and upwind of spill/leak.

#### 6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

#### 6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

#### 6.4 Reference to other sections

For disposal see section 13.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, ventilated warehouse. Store at 2-8°C.

#### 7.3 Specific end use(s)

no data available

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and

approved under appropriate government standards such as NIOSH (US) or EN

166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without

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touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

**Body Protection** 

Complete suit protecting against chemicals, Flame retardant antistatic protective

clothing., The type of protective equipment must be selected according to the

concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

Control of environmental exposure

Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

a) Appearance	no data available	
b) Odour	no data available	
c) Odour Threshold	no data available	
d) pH	no data available	
e) Melting point/freezing point	-122°C	
f) Initial boiling point and boiling range	130°C	
g) Flash point	113°C	
h) Evaporation rate	no data available	
i) Flammability (solid, gas)	no data available	
j) Upper/lower flammability or		
explosive limits	no data available	
k) Vapour pressure	no data available	
I) Vapour density	no data available	
m) Relative density	no data available	
n) Water solubility	no data available	
o) Partition coefficient: n-octanol/water	no data available	
p) Auto-ignition temperature	no data available	
q) Decomposition temperature	no data available	
r) Viscosity	no data available	
s) Explosive properties N	no data available	
t) Oxidizing properties N	no data available	

### 9.2 Other safety information

no data available

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#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

no data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

no data available

## 10.4 Conditions to avoid

no data available

#### 10.5 Incompatible materials

no data available

#### 10.6 Hazardous decomposition products

no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity LD50 Oral - Rat - < 2.000 mg/kg

(OECD Test Guideline 423)

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Dermal: No data available

Skin corrosion/irritation Mixture causes severe burns. Serious eye damage/eye irritation Mixture causes serious eye damage. Risk of blindness! Respiratory or skin sensitisation no data available Germ cell mutagenicity Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Carcinogenicity no data available Reproductive toxicity no data available

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> Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure Mixture may cause damage to organs through prolonged or repeated exposure. - Thyroid Aspiration hazard no data available Additional Information burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Other dangerous properties

can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates Immobilization EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)

#### 12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

#### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

no data available

### SECTION 13:

#### 13.1 Disposal considerations

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance. Contaminated packaging



Dispose of as unused product.

### SECTION 14: Transport information

UN number: 1873	Packing group: I	Class: 5.1 (8)
Proper shipping name: PERCHLORIC	Reportable Quantity(RQ): no data	Poison Inhalation Hazard: no data
ACID	available	available
Environmental Hazards: no		
IMDG		
UN number: 1873	Packing group: I	EMS-No: no data available
Proper shipping name: PERCHLORIC A	CID	
ΙΑΤΑ		
UN number: 1873	Packing group: I	Class: 5.1 (8)
Proper shipping name: PERCHLORIC A	CID	

### SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **SECTION 16: Other information**

Regulatory Affairs ALADDIN SCIENTIFIC CORPORATION Email: QualityAssurance@aladdinsci.com	
29-Jul-2021	
10-Jan-2024	
17-Jan-2024	
SDS sections updated v1	

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