ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1
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SECTION 1:Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	: Ala-1511198 Semiconductor cleaning agent
Product Number	: A1511198
Brand	: aladdin
CAS-No.	: no data available

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

Identified uses	: Laboratory chemicals,Manufacture of substances.

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)
Flammable liquid (Class 2), H225

Serious eye damage/eye irritation (Category 2A), H319

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Danger
Hazard statement(s)	
H225	Highly Flammable liquid and vapor
H319	Causes serious eye irritation
Precautionary statement(s)	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/.../] equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash hands [and ...] thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use ... to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
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	: no data available
Molecular weight	: no data available

Component	Classification	Concentration
Ethanol		
CAS-No. : 64-17-5 EC-No. :	Flammable liquid category 2; Serious eye injury/eye irritation category 2A; H225, H319	< =100%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

Flammable Be careful of tempering. Steam is heavier than air, so it can spread over the ground. When caught on fire, it may cause the production of hazardous gases or vapors Form explosive mixtures with air at mild temperatures

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

no data available

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 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

Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with incompatible substances such as oxidizing agents (see section 10 for incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emer

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool and ventilated warehouse.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Hazard composition and occupational exposure limit:

Components	CAS No.	value	Control parameters	basis
ethanol	64-17-5	TWA	1,000 ppm1,900 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	1,000 ppm1,900 mg/m3	U.S.A. Occupational Exposure Limits (OSHA) - Table Z-1 Air Pollutant Limits
		STEL	1,000 ppm	U.S.A. ACGIH Threshold Limit Value (TLV)
	remarks	Animal carcinogens with unknown association with humans		
		TWA	1,000 ppm1,900 mg/m3	U.S.A. NIOSH Recommended Exposure Limits
		PEL	1,000 ppm1,900 mg/m3	Permissible Exposure Limits for Chemical Pollutants in California (Article 107, Paragraph 8)

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 EN166(EU).

Skin protection

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

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	form: liquid color: Colorless
b) Odour	Pungent
c) Odour Threshold	0.1 ppm
d) pH	7.0 (20 °C) Concentration or concentration range: 10 g/l
e) Melting point/freezing point	-114 °C
f) Initial boiling point and boiling range	78.3 °C
g) Flash point	13 °C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	Explosion upper limit 27.7% (V) Explosion lower limit 3.1% (V)
k) Vapour pressure	57.26 hectopascals (19.6 ° C)
l) Vapour density	1.6
m) Relative density	0.789 g/mL (20 °C)
n) Water solubility	1000 g/l completely miscible (20 ° C)
o) Partition coefficient: n-octanol/water	Log Pow: -0.35 (24 ° C) pH value: 7.4 Method: OECD Testing Guideline 107 Estimated No Bioaccumulation
p) Auto-ignition temperature	363 ° C (1013 hectopascals)
q) Decomposition temperature	Distillation is feasible under normal pressure without decomposition

r) Viscosity	1.2 mPa.s (20 °C)
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

9.2 Other safety information

no data available

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

Explosive/exothermic hazardous reactants: hydrogen peroxide Perchlorate Perchloric acid nitric acid Mercury nitrate (II) Permanganate nitrile peroxide Strong oxidant Nitrite peroxide sodium potassium Halogen oxide Calcium hypochlorite Nitrogen dioxide metallic oxide Uranium hexafluoride Iodide chlorine alkali metal alkaline-earth metal Alkaline oxide ethylene oxide silver and nitric acid Argentide and ammonia Potassium permanganate and concentrated sulfuric acid It may cause fire or produce flammable gas or vapor: Halogen Halogen compounds Chromium oxide (VI) Chromium oxychloride fluorine hydride Phosphorus oxide platinum nitric acid and Potassium permanganate

10.4 Conditions to avoid

Heating

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

carbon oxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - Male and Female - 10470 mg/kg

(OECD Test Guideline 401)

LC50 inhalation - rats - male and female - 4 h - 124.7 mg/l

(OECD Test Guideline 403)

Transcutaneous: no data

Skin corrosion/irritation
Skin - Rabbit Result: No skin irritation - 24h (OECD Test Guideline 404)
Serious eye damage/eye irritation
Eyes - Rabbit Results: It caused serious eye irritation. (OECD Test Guideline 405)
Respiratory or skin sensitisation
Maximum reaction test - guinea pigs Result: Negative (OECD Test Guideline 406) Remarks: (compared with similar products) Values are specified for the following substances: methanol
Germ cell mutagenicity
Test type: Ames test Test system: Salmonella typhimurium Metabolic activation: with or without metabolic activation Method: OECD Test Guideline 471 Result: Negative Test type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with or without metabolic activation Method: OECD Test Guideline 476 Result: Negative Test type: dominant lethal test Species: mouse Route of exposure: oral Method: OECD Test Guideline 478 Results: Positive results were obtained in some in vivo tests.
Carcinogenicity
no data available
Reproductive toxicity
no data available
Specific target organ toxicity - single exposure
no data available
Specific target organ toxicity - repeated exposure
no data available
Aspiration hazard
no data available
Additional Information
Repeated toxicity - rat - male - oral - level of no observed harmful effects -1730 mg/kg - lowest level of observed harmful effects -3200 mg/kg
Registration of Toxic Effects of Chemical Substances: KQ6300000
Stimulating effect, respiratory paralysis, dizziness, anesthesia, drunkenness, euphoria, nausea, vomiting

To our knowledge, the chemical, physical, and toxic properties of this substance have not been fully studied.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish flow test LC50 - Pimephales promelas - 15300 mg/l - 96 h

(US-EPA)

Toxicity to Daphnia magna and other aquatic invertebrates

Static test LC50 - Ceriodaphnia dubia - 5012 mg/l - 48 h

Remarks: (ECHA)

Static test of toxicity to algae ErC50 - Chlorella vulgaris (freshwater algae) - 275 mg/l - 72 h

(OECD Test Guideline 201)

Static test of toxicity to bacteria IC50 - activated sludge ->1000 mg/l - 3 h

(OECD Test Guideline 209)

12.2 Persistence and degradability

Biodegradable aerobic - exposure time 15 days Results: About 95% - fast biodegradable. (OECD Test Guideline 301E) Biological oxygen demand (BOD) 930 - 1670 mg/g Remarks: (Lit.) Theoretical oxygen demand 2100 mg/g Remarks: (Lit.)

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment is not available because chemical safety assessment is not required/carried out

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

DOT (US)

UN number: 1170	Packing group: II	Class: 3
Proper shipping name: ethanol	Reportable Quantity(RQ):no data available	Poison Inhalation Hazard:no data available
Environmental Hazards: no		

IMDG

UN number: 1170	Packing group: II	EMS-No:no data available
Proper shipping name: ethanol		

IATA

UN number: 1170	Packing group: II	Class: 3
Proper shipping name: ethanol		

SECTION 15: Regulatory information

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

SECTION 16: Other information

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Disclaimer

 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.