

## Safety Data Sheet (SDS)

This product is a chemical substance and is intended to be used by persons having chemical knowledge and skill, at their own discretion and risk.

Revision Date: Jun. 1, 2015

### Section1. **PRODUCT AND COMPANY IDENTIFICATION**

#### 1.1 Product identifier

Product Name: ALC  
 Product Code: A006  
 CAS Number: 3952-78-1  
 EC Number: 223-544-2

#### 1.2 Details of the supplier of the safety data sheet

Company: Dojindo Laboratories  
 Address: Tabaru 2025-5 Mashiki-machi, Kamimashiki-gun, Kumamoto 861-2202, Japan  
 Telephone: +81-96-286-1515  
 Fax: +81-96-286-1525  
 Emergency phone number : +81-96-286-1515

#### 1.3 Product use

For research use only.

### Section2. **HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008.[EU-GHS/CLP]  
 Acute toxicity, Category 4 (Oral)  
 Acute toxicity, Category 4 (Derm)  
 Acute toxicity, Category 4 (Inh)

#### 2.2 Label elements

Labeling according Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Pictogram:



Signal word: Warning

Hazard statement(s):

H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H332 Harmful if inhaled.

Precautionary statement(s):

P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.  
 P264 Wash /hands/face/forearms/clothing thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/ face protection.  
 P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container in accordance with local/regional/ international regulations.

## 2.3 Other hazards

None known.

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### Section3. **COMPOSITION/INFORMATION ON INGREDIENTS**

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3.1	Product Name:	ALC
	Synonyms:	3-[N,N-Bis(carboxymethyl)aminomethyl]-1,2-dihydroxyanthraquinone
	Concentration:	≤ 100 %
	Formula:	C <sub>19</sub> H <sub>15</sub> NO <sub>8</sub>
	Molecular Weight:	385.32

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### Section4. **FIRST AID MEASURES**

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- 4.1 Description of first aid measures**
- If inhaled: If breathed in, move into fresh air. Seek medical advice if discomfort occurs. If not breathing, give artificial respiration. Call a physician.
- If swallowed: Do not induce vomiting. Wash out mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.
- In case of skin contact: Wash off with plenty of water. Remove contaminated clothing and launder before reuse.
- In case of eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.
- 4.2 Most important symptoms and effects, both acute and delayed**  
No information available.
- 4.3 Indication of any immediate medical attention and special treatment needed**  
No information available.

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### Section5. **FIRE-FIGHTING MEASURES**

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- 5.1 Extinguishing media**  
Use extinguishing media appropriate for the surrounding fire.
- 5.2 Special hazards arising from the substance or mixture**  
May emit toxic fumes under fire conditions.
- 5.3 Special protective equipment for firefighters**  
Wear self-contained breathing apparatus and full protective clothing if necessary.

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### Section6. **ACCIDENTAL RELEASE MEASURES**

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- 6.1 Personal precautions, protective equipment and emergency procedures**  
Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Avoid contact with skin and clothing.
- 6.2 Environmental precautions**  
Prevent further leakage. Prevent contamination of drains with product.
- 6.3 Methods and materials for containment and cleaning up**  
Pick up and collect product in suitable container for disposal.

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### Section7. **HANDLING AND STORAGE**

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- 7.1 Precautions for safe handling**  
Avoid contact with skin and eyes. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Wear appropriate protective personal equipment. Use only with adequate ventilation.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Keep tightly closed.  
Store in a cool, dark and dry place.

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### Section8. **EXPOSURE CONTROLS / PERSONAL PROTECTION**

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- 8.1 Control parameters**  
Contains no substances with occupational exposure limit values.
- 8.2 Exposure controls**
- Engineering measures**  
Ensure adequate ventilation, especially in confined areas.
- Hygiene measures**  
Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or

smoke. Wash hands, forearms and face after handling.

**Personal protective equipment**

<b>Eye/face protection:</b>	Wear safety glasses with side-shields conforming to European Standard EN166.
<b>Hand protection:</b>	Wear protective gloves conforming to EU Directive 89/686/EEC and European Standard EN374. Gloves must be inspected prior to use. Avoid skin contact with product when remove gloves. Dispose of contaminated gloves safely after use.
<b>Skin and body protection:</b>	Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.
<b>Respiratory protection:</b>	Wear suitable respiratory equipment in case of inadequate ventilation.

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**Section9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Information on basic physical and chemical properties**

a) Appearance:	Yellowish orange to yellowish brown powder
b) Odor:	Odorless
c) Odor Threshold:	No data available
d) pH:	No data available
e) Melting point/freezing point:	No data available
f) Initial boiling point and boiling range:	No data available
g) Flash point:	No data available
h) Evaporation rate:	No data available
i) Flammability (solid, gas):	No data available
j) Upper / lower flammability or explosive limits:	No data available
k) Vapor pressure:	No data available
l) Vapor density:	No data available
m) Relative density:	No data available
n) Solubility(ies):	Solubility in 0.02 mol/l NaOH solution (100 mg / 50 ml)
o) Partition coefficient: <i>n</i> -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:	No data available
t) Oxidizing properties:	No data available

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**Section10. STABILITY AND REACTIVITY**

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**Stability and reactivity**

Reactivity:	Stable
Chemical stability:	Stable at a cool, dark and dry place.
Possibility of hazardous reactions:	No data available
Conditions to avoid:	Heat, sunlight, high temperature
Incompatible materials:	Strong oxidizing agents, strong acids and bases
Hazardous decomposition products:	When decomposed, it may emit toxic fumes of carbon monoxide, carbon dioxide and nitrogen oxides.

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**Section11. TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects**

a) Acute toxicity:	No data available
b) Skin corrosion / irritation:	No data available
c) Serious eye damage/eye irritation:	No data available
d) Carcinogenicity:	No data available
	No component of this product present at levels greater than or equal to 0.1% is identified as a possible, probable or confirmed human carcinogen by IARC.
e) Reproductive toxicity:	No data available
f) STOT - SE:	No data available
g) STOT - RE:	No data available
h) Aspiration hazard:	No data available

**11.2 Potential health effects**

Ingestion:	May be harmful if swallowed.
Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation.
Skin:	May be harmful if absorbed through skin. Causes skin irritation.
Eyes:	Causes serious eye irritation.

**11.3 Additional Information**

No additional information is available

