

## 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: Aug. 25, 2017

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

#### 1.1 Product identifier

Product Name: C021  
 Product Code: Co(III)-5-Cl-PADAP  
 CAS Number: 81342-98-5  
 EC Number: 279-741-9

#### 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]  
 Carcinogenicity, Category 2

#### 2.2 Label elements

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

Pictogram:



Signal word: Warning

Hazard statement(s):  
 H351 Suspected of causing cancer.

Precautionary statement(s):  
 P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P281 Use personal protective equipment as required.  
 P308 + P313 IF exposed or concerned: Get medical advice/attention.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/ international regulations.

#### 2.3 Other hazards

None known.

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

3.1 Product Name: C021  
 Synonyms: Bis[2-(5-chloro-2-pyridylazo)-5-diethylaminophenolato]cobalt(III) chloride  
 Concentration:  $\leq 100\%$

Formula:  $C_{30}H_{32}Cl_3CoN_8O_2$   
Molecular Weight: 701.92

---

#### Section 4. **FIRST AID MEASURES**

---

##### 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.

---

#### Section 5. **FIRE-FIGHTING MEASURES**

---

##### 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.

---

#### Section 6. **ACCIDENTAL RELEASE MEASURES**

---

##### 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.

---

#### Section 7. **HANDLING AND STORAGE**

---

##### 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.

---

#### Section 8. **EXPOSURE CONTROLS / PERSONAL PROTECTION**

---

##### 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**

###### **Eye/face protection:**

Wear safety glasses with side-shields conforming to European Standard EN166.

###### **Hand protection:**

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.

###### **Skin and body protection:**

Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

###### **Respiratory protection:**

Wear suitable respiratory equipment in case of inadequate ventilation.

---

#### Section 9. **PHYSICAL AND CHEMICAL PROPERTIES**

---

##### **Information on basic physical and chemical properties**

a) Appearance:

Blackish purple crystal

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 10% methylalchol (70.2mg / 10mL)
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

---

## Section 10. **STABILITY AND REACTIVITY**

---

### 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.

---

## Section 11. **TOXICOLOGICAL INFORMATION**

---

### 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:	Not classified by the IARC monographs.
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

---

## Section 12. **ECOLOGICAL INFORMATION**

---

### 12.1 Ecotoxicity

No data available

### 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

---

## Section 13. **DISPOSAL CONSIDERATIONS**

---

### Waste treatment methods

#### Product

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with local regulations.

#### Contaminated packaging

Dispose of as unused product. Do not reuse empty containers.

---

**Section 14. TRANSPORT INFORMATION**

---

<b>14.1 UN number</b>	ADR/RID: -	IMDG: -	IATA: -
<b>14.2 UN proper shipping name</b>	ADR/RID: - IMDG: - IATA: Not dangerous goods		
<b>14.3 Transport hazard class(es)</b>	ADR/RID: -	IMDG: -	IATA: -
<b>14.4 Packaging group</b>	ADR/RID: -	IMDG: -	IATA: -
<b>14.5 Environmental hazards</b>	ADR/RID: No	IMDG: No	IATA: No

---

**Section 15. REGULATORY INFORMATION**

---

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 [REACH], as amended by Commission Regulation (EU) No 453/2010.

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

No information available

**15.2 Chemical Safety Assessment**

No information available

---

**Section 16. OTHER INFORMATION**

---

**Key to abbreviations and acronyms**

STOT-SE:	Specific Target Organ Toxicity - Single Exposure
STOT-RE:	Specific Target Organ Toxicity - Repeated Exposure
PBT:	Persistent Bioaccumulative and Toxic
vPvB:	very Persistent very Bioaccumulative and toxic
ADR:	European Agreement concerning the international carriage of Dangerous goods by Road
CAS:	Chemical Abstracts Service
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime code for Dangerous Goods
REACH:	Registration, Evaluation, Authorization and restriction of Chemicals
RID:	Regulations concerning the International transport of Dangerous goods by rail