

## 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

### Section 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

Product Name: -Cellstain<sup>®</sup> - DAPI  
 Product Code: D212  
 CAS Number: 28718-90-3  
 EC Number: 249-186-7

#### 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.

### Section 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008.[EU-GHS/CLP]  
 Skin corrosion/irritation, Category 2  
 Skin sensitisation, Category 1, 1A, 1B  
 Specific target organ toxicity – single exposure, Category 3

#### 2.2 Label elements

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

Pictogram:



Signal word: Warning

Hazard statement(s):

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.

Precautionary statement(s):

P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.  
 P264 Wash /hands/face/forearms/clothing thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/protective clothing/eye protection/ face protection.  
 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.

P332 + P313	If skin irritation occurs: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
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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<b>3.1</b>	Product Name:	-Cellstain® - DAPI
	Synonyms:	4',6-Diamidino-2-phenylindole, dihydrochloride
	Concentration:	≤ 100 %
	Formula:	C <sub>16</sub> H <sub>17</sub> Cl <sub>2</sub> N <sub>5</sub>
	Molecular Weight:	350.25

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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. Protect from light.  
Store in a deep freeze at -20°C, 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:	Yellow powder or solid
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 water (1 mg / 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 deep freeze at -20°C, 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 carbonmonoxide, 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 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.
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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

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## Section 12. **ECOLOGICAL INFORMATION**

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### 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

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## Section 13. **DISPOSAL CONSIDERATIONS**

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### 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.

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## Section 14. **TRANSPORT INFORMATION**

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### 14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

### 14.2 UN proper shipping name

ADR/RID:

Not dangerous goods

IMDG:

Not dangerous goods

IATA:

Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

### 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

### 14.5 Environmental hazards

ADR/RID: No

IMDG: No

IATA: No

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## Section 15. **REGULATORY INFORMATION**

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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

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## Section 16. **OTHER INFORMATION**

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### 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