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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:	-*Cellstain*®- Calcein-AM
Product Code:	C326
CAS Number	148504-34-1
EC Number:	-

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]

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

2.2 Label elements

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

Pictogram:	None
Signal word:	None
Hazard statement(s):	None
Precautionary statement(s):	None

2.3 Other hazards

None known.

Section3. *COMPOSITION/INFORMATION ON INGREDIENTS*

3.1

Product Name:	-*Cellstain*®- Calcein-AM
Synonyms:	3',6'-Di(*O*-acetyl)-4',5'-bis[*N*,*N*-bis(carboxymethyl)aminomethyl]fluorescein, tetraacetoxymethyl ester
Concentration:	≦100 %
Formula:	$C_{46}H_{46}N_2O_{23}$
Molecular Weight:	994.86

Section4. *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.

Section5. *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.

Section6. *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.

Section7. *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. Protect from light.

Store in a cool (0-5℃), dark and dry place.

Section8. *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 handing.

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.

Section9. *PHYSICAL AND CHEMICAL PROPERTIES*

Information on basic physical and chemical properties

a) Appearance:	Colorless to slightly yellow 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 DMSO (1 mg / ml)
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:	No data available
t) Oxidizing properties:	No data available

Section10. ***STABILITY AND REACTIVITY***

Stability and reactivity

Reactivity:	Stable
Chemical stability:	Stable at a deep freeze at -20℃, 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.

Section11. ***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:	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

Section12. ***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

Section13. ***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.

Section14. ***TRANSPORT INFORMATION***

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: -

IMDG: -
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

Section15. ***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

Section16. ***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