

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Protein Dual-Labeling Kit

Universal C/N-terminal Protein Labeling with Fluorescein/Coumarin

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: Protein Dual-Labeling Kit
Catalog Number: FP-303-FLU
Supplier: Jena Bioscience GmbH
Loebstedter Strasse 71
07749 Jena, Germany
Telephone: +49 - 3641 - 62 85 000
Fax: +49 - 3641 - 62 85 100
e-Mail: info@jenabioscience.com
WWW: http://www.jenabioscience.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
According to Regulation (EC) No. 1272/2008 (EU-GHS/CLP)
Acute Tox. 3, H301 / H311 / H331
Skin Irrit 2, H315
Skin Sens 1, H317
Eye Dam. 1, H318
Eye Irrit 2, H319
STOT SE 3, H335
Muta. 2, H341
Carc. 2, H351
STOT SE 1, H372
Aquatic Acute 1, H400

According to EC-directives 67/548/EEC or 1999/45/EC
T, R23/24/25, R48/23/24/25
Xi, R36/37/38, R41
N, R50
R40, R43, R68

Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]



Pictogram

Signal word

Danger

Hazard statement(s)

H301

Toxic if swallowed.

H311

Toxic in contact with skin.

H315

Causes skin irritation.

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H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H372	Causes damage to organs.
H400	Very toxic to aquatic life.
Precautionary statement(s)	
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P341	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazard components of the Kit:

MPAA	
Synonyms:	4-Mercaptophenylacetic acid
Molecular Weight:	168.21 g/mol
CAS-No.:	39161-84-7
Classification:	Skin Irrit. 2, H315 - Eye Dam. 1, H318 - STOT SE 3, H335 Xi, R37/38, R41
Concentration:	?100 %

MESNA	
Synonyms:	2-mercaptoethanesulfonate
Molecular Weight:	164.18 g/mol
CAS-No.:	19767-45-4
EC number:	243-285-9
Classification:	Skin Irrit. 2, H315 - Eye Irrit 2, H319 - STOT SE 3, H335 Xi, R36/37/38
Concentration:	?100 %

Aniline	
Synonyms:	Aniline hydrochloride
Formula:	C ₆ H ₇ N x HCl
Molecular Weight:	129.59 g/mol



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CAS-No.: 142-04-1
EC number: 205-519-8
Index No.: 612-009-00-2
Classification: Eye Dam. 1, H318 - Carc. 2, H351 - Muta 2, H341 - Acute Tox. 3, H301/311/331 - STOT SE 1, H372 - Skin Sens. 1, H317 - Aquatic Acute 1, H400
T, R23/24/25, R48/23/24/25 - Xi, R41 - N, R50 - R40 - R43 - R68
Concentration: ?100 %

4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

drying, cracking of the skin, Skin irritation

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling



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Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: store at -20 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves.

Eye protection

Safety glasses

Hygiene measures

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form:

Safety data

pH:	
Melting point:	no data available
Boiling point:	no data available
Flash point:	no data available
Ignition temperature:	no data available
Lower explosion limit:	no data available
Upper explosion limit:	no data available
Water solubility:	no data available

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid



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Strong oxidizing agents

Hazardous decomposition products

no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Aniline:

Oral LD₅₀ 840 mg/kg (rat)

Irritation and corrosion

Aniline:

Skin - rabbit

Result: Skin irritation - 24 h

Sensitisation

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Signs and Symptoms of Exposure

Dermatitis

Potential Health Effects

Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
Skin:	May be harmful if absorbed through skin. May cause skin irritation.
Eyes:	May cause eye irritation.
Ingestion:	May be harmful if swallowed.
Target Organs:	Liver, Kidney

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available



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13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

UN number/ Proper shipping name

ADR/RID: UN 1548 Aniline hydrochloride
IMDG: UN 1548 Aniline hydrochloride
IATA: UN 1548 Aniline hydrochloride

ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: UN 3335 Aviation regulated solid, n.o.s. (4-Mercaptophenylacetic acid)

Transport hazard class(es)

ADR/RID: 6.1
IMDG: 6.1
IATA: 6.1

ADR/RID: -
IMDG: -
IATA: 9

Packaging group

ADR/RID: III
IMDG: III
IATA: III

ADR/RID: -
IMDG: -
IATA: III

Environmental hazards

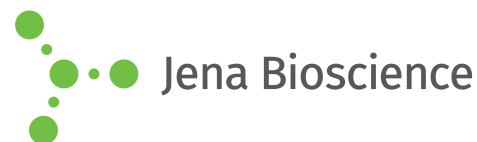
ADR/RID: no
IMDG: no
IATA: no

15. REGULATORY INFORMATION

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

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16. OTHER INFORMATION

Further information

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