

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Cy5 Protein Labeling Kit

Fluorescent labeling of primary amino groups

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

Product Name: Cy5 Protein Labeling Kit
Catalog Number: FP-201-CY5
Supplier: Jena Bioscience GmbH
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
According to Regulation (EC) No. 1272/2008 (EU-GHS/CLP)
Flam. Liq. 3, H226
Acute Tox., Inhalation 4, H332
Acute Tox., Dermal 4, H312
Eye Irrit. 2, H319
Repr. 1B, H360D
According to EC-directives 67/548/EEC or 1999/45/EC
Xn, R20/21
Xi, R36
R61

Label elements

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



Pictogram

Signal word

Danger

Hazard statement(s)

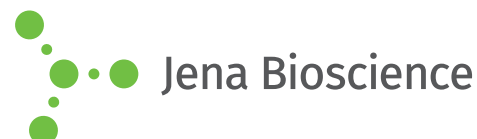
H226 Flammable liquid and vapour.
H312 + H332 Harmful in contact with skin or if inhaled
H319 Causes serious eye irritation.
H360D May damage the unborn child.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
P280 Wear protective gloves/ protective clothing.
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.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
Supplemental Hazard State- none
ments

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazard component of the Kit: DMF

Synonyms: N,N-Dimethylformamide
Formula: C_3H_7NO
Molecular Weight: 73.09 g/mol
CAS-No.: 68-12-2
EC number: 200-679-5
Index-No.: 616-001-00-X
Registration number: 01-2119475605-32-XXXX
Classification: Flam. Liq. 3, H226 - Acute Tox. 4, H312/H332 - Eye Irrit. 2, H319 - Repr. 1B, H360D
Xn, R20/21 - Xi, R36 - R61
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.

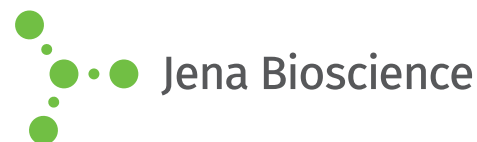
Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

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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

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:

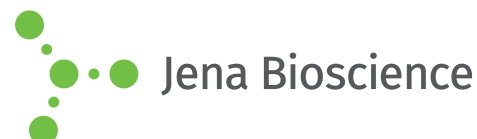
Melting point: -61 °C

Boiling point: 153 °C

Flash point: 58 °C - closed cup

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Ignition temperature: 440 °C
Lower explosion limit: 2.2 % (v/v)
Upper explosion limit: 16 % (v/v)
Water solubility: completely miscible

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD₅₀ 2800 mg/kg (rat) (TOXNET)
Dermal LD₅₀ 1500 mg/kg (rabbit) (TOXNET)
Inhalativ LC50/4 h 90-15 mg/l (rat)

Irritation and corrosion

Skin - human - Mild skin irritation - 24 h
Eyes - rabbit - Moderate eye irritation - 24 h

Sensitisation

no data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (N,N-Dimethylformamide)

Germ cell mutagenicity

mouse, lymphocyte, mutation in mammalian somatic cells

Reproductive toxicity

May cause congenital malformation in the fetus.

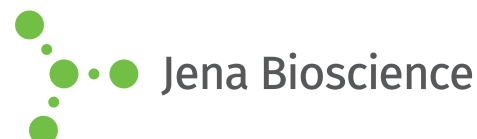
12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish
LC50 - Oncorhynchus mykiss (rainbow trout) - 9.000 - 13.000 mg/l - 96 h
LC50 - Lepomis macrochirus (Bluegill) - 6.700 - 7.500 mg/l - 96 h

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	LC50 - Pimephales promelas (fathead minnow) - 10.400 - 10.800 mg/l - 96 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - 9.800 mg/l - 96 h
	LC50 - Lepomis macrochirus (Bluegill) - 6.300 mg/l - 96 h
	LC50 - Pimephales promelas (fathead minnow) - 10.600 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 9.600 - 13.100 mg/l - 48 h
	EC50 - Daphnia magna (Water flea) - 15.700 mg/l - 48 h
Toxicity to algae	LC50 - Desmodesmus subspicatus (green algae) - > 500 mg/l - 96 h

Elimination information (persistence and degradability)

Biodegradability Result: > 90 % - Readily biodegradable

Further information on ecology

none

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 2265 N,N-Dimethylformamid
IMDG:	UN 2265 N,N-Dimethylformamide
IATA:	UN 2265 N,N-Dimethylformamide

Transport hazard class(es)

ADR/RID:	3
IMDG:	3
IATA:	3

Packaging group

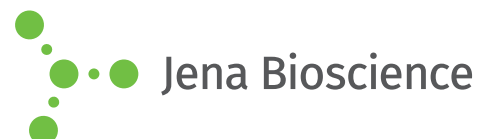
ADR/RID:	III
IMDG:	III
IATA:	III

Environmental hazards

ADR/RID:	no
IMDG:	no
IATA:	no

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15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

Further information

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