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SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name: Alexa Fluor® 647 - FluoroNanogold™ Fab' fragment of goat anti mouse IgG (H+L)
Product Number: 7502-1ML
7502-0.5ML

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Relevant identified uses
Laboratory chemicals

Uses advised against
Not for drug use

1.3 Details of the supplier of the safety data sheet

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]
Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name Alexa Fluor® 647 - FluoroNanogold™ Fab' fragment of goat anti mouse IgG (H+L)

Ingredient Name	CAS #	EC #	Percent
Alexa Fluor® 647 - FluoroNanogold™-Fab' fragment of goat anti mouse IgG (H+L)	Not Found		<0.01%(w/w)
Sodium Azide	26628-22-8	247-852-1	0.05%(w/w)

4. FIRST AID MEASURES

4.1 Description of first aid measures

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

If inhaled, remove to fresh air. If not breathing give artificial respiration. Call a physician.

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

5.2 Special hazards arising from the substance or mixture
Nature of decomposition products not known.

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary**.**

5.4 Further information
no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation

6.2 Environmental precautions
Do not let product enter drains. Discharge into the environment must be avoided

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material. Keep in suitable, closed containers for disposal

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities
Keep container closed and kept upright to prevent leakage. Recommended storage temperature: 4°C.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls
Appropriate engineering controls
Personal protective equipment
Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
a) Appearance Form: Pale Brown Liquid
b) Odour no data available
c) Odour Threshold no data available
d) pH: 7.4
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) Evapouration rate no data available
i) Flammability not flammable
j) Upper/lower flammability or explosive limits no data available
k) Vapour pressure no data available
l) Vapour density no data available
m) Relative density no data available
n) Solubility Soluble in water
o) Partition coefficient 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

9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable: Stable under recommended storage condition within specified expiration date

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
Avoid excessive agitation.

10.5 Incompatible materials
Strong oxidizing agents, acids, thiols

10.6 Hazardous decomposition products In the event of fire
see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)
Sodium Azide	27 mg/kg (rat)	No data available
Alexa Fluor® 647 - FluoroNanogold™ Fab' fragment of goat anti mouse IgG (H+L)	No data available	No data available

Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Inhalation: May be harmful if inhaled.
Ingestion: May be harmful if swallowed.
Germ cell mutagenicity: no data available
Carcinogenicity: no data available
Reproductive toxicity: no data available
Specific target organ toxicity-single exposure: no data available Specific target organ toxicity-repeated exposure: no data available Aspiration hazard: no data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
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
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous goods

15. REGULATORY INFORMATION

SARA 302
Components SARA 302
The following components are subject to reporting levels established by SARA Title III, Section 302:

Chemical Name	CAS-No.	Weight %	Sara 313 - de minimis % Limit
Sodium azide	26628-22-8	0.05%	1.0%

SARA 313
Components SARA 313
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components

	CAS-No	Revision Date
Sodium azide	26628-22-8	2007-07-01

Pennsylvania Right To Know Components

	CAS-No	Revision Date
Sodium azide	26628-22-8	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16 Other Information

DISCLAIMER
For R&D use only. Not for drug, household or other uses.

WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Nanoprobes Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.