

Material Safety Data Sheet

FlashGel™ Loading Dye

Version 1.1

Revision Date 2014.06.20

Print Date 2014.11.26

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : FlashGel™ Loading Dye
Material number : 50462
Product Use Description : Scientific research and development

Company : **Lonza Inc. - Rockland**
191 Thomaston Street
Rockland, ME 04841-2994
USA
Business Telephone: (207) 594-3400

Lonza Inc. - Walkersville
8830 Biggs Ford Road
Walkersville, MD 21793-0127
USA
Business Telephone (301) 898-7025

Emergency telephone number : 703-527-3887 (US: 800-424-9300)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form: viscous, liquid, Colour: blue,

OSHA Hazards : NO OSHA HAZARDS

Potential Health EffectsAggravated Medical Condition : Kidney disorders
Liver disorders

Inhalation : No hazards resulting from the material as supplied.

Skin : May cause skin irritation.

Eyes : May irritate eyes.

Ingestion : May be harmful if swallowed.

Chronic Exposure : No hazards to be specially mentioned.

Symptoms of Overexposure : No information available.

Material Safety Data Sheet

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent
Glycerol	56-81-5	30.00
Sodium hydrogen 4-[[4-(ethylamino)-m-tolyl][4-(ethylimino)-3-methylcyclohexa-2,5-dien-1-ylidene]methyl]benzene-1,3-disulphonate	2650-17-1	0.15

SECTION 4. FIRST AID MEASURES

First aid procedures

- Inhalation : No special precautions required.
- Skin contact : Wash with water and soap as a precaution.
If skin irritation persists, call a physician.
- Eye contact : Immediately flush eye(s) with plenty of water.
If eye irritation persists, consult a specialist.
- Ingestion : Immediately give large quantities of water to drink.
Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person.

Notes to physician

- Symptoms : No information available.
- Treatment : No information available.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

- Flash point : Remarks: not determined

Fire fighting

- Suitable extinguishing media : Water spray
Dry powder
Foam

Material Safety Data Sheet

FlashGel™ Loading Dye

Version 1.1

Revision Date 2014.06.20

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Further information : Use water spray to cool unopened containers.

Protective equipment and precautions for firefighters

Specific hazards during firefighting : Heating or fire can release toxic gas.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.

Methods for containment / Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Handling

Handling : No special precautions required.

Advice on protection against fire and explosion : No special precautions required.

Storage

Requirements for storage areas and containers : Store in original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Glycerol	56-81-5	TWA	10 mg/m ³	2009	ACGIH

Engineering measures

Material Safety Data Sheet

FlashGel™ Loading Dye

Version 1.1

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Personal protective equipment

- Eye protection : Tightly fitting safety goggles
- Hand protection : Wear suitable gloves., Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place. No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

- Form : viscous
liquid
- Colour : blue

Safety data

- Flash point : Note: not determined
- pH : Note: no data available
- Water solubility : Note: soluble

SECTION 10. STABILITY AND REACTIVITY

- Conditions to avoid : Remarks: None known.
- Materials to avoid : Remarks: Strong oxidizing agents
- Hazardous decomposition products : Note: Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
- Hazardous reactions : None known.

Material Safety Data Sheet

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SECTION 11. TOXICOLOGICAL INFORMATION

- Acute dermal toxicity (Component) : Component: Glycerol
LD50 rabbit
Dose: > 10,000 mg/kg
- Skin irritation (Component) : Component: Glycerol
rabbit
Result: mild irritant
Exposure time: 24 h
- Eye irritation(Component) : Component: Glycerol
rabbit
Result: mild irritant
- Further information : No data is available on the product itself.

The following toxicological data refer to:

Glycerol (CAS-No.: 56-81-5)

- Acute dermal toxicity : LD50 rabbit
Dose: > 10,000 mg/kg
- Skin irritation : rabbit
Result: mild irritant
Exposure time: 24 h
- Eye irritation : rabbit
Result: mild irritant

SECTION 12. ECOLOGICAL INFORMATION

- Biodegradability : Remarks:
no data available
- Bioaccumulation : Remarks:
no data available
- Acute Fish toxicity : Remarks:
no data available
- Additional ecological : No data is available on the product itself.

Material Safety Data Sheet

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information

Component:

Glycerol

56-81-5

Toxicity to fish:

Acute toxicity LC0

Species: Leuciscus idus (Golden orfe)

Dose: > 10,000 mg/l

Exposure time: 48 h

Analytical monitoring: no

Method: DIN 38412 Part 15

Toxicity to daphnia and other aquatic invertebrates:

Immobilization EC50

Species: Daphnia magna (Water flea)

Dose: > 10,000 mg/l

Exposure time: 24 h

Analytical monitoring: no

Toxicity to algae:

Cell multiplication inhibition test EC10

Species: Desmodesmus subspicatus (green algae)

Dose: > 10,000 mg/l

Exposure time: 8 d

Analytical monitoring: no

Method:

Toxicity to bacteria:

Cell multiplication inhibition test EC10

Species: Pseudomonas putida

Dose: > 10,000 mg/l

Exposure time: 16 h

Analytical monitoring: no

Method:

Additional ecological information:

no data available

The following ecotoxicological data refer to:

Glycerol (CAS-No.: 56-81-5)

- Biodegradability : Closed Bottle test
 Concentration: 2 mg/l
 Exposure time: 30 d
 Result: Readily biodegradable.
 93 %
 Method: OECD Test Guideline 301D
- Acute Fish toxicity : Acute toxicity LC0
 Species: Leuciscus idus (Golden orfe)
 Concentration: > 10,000.00 mg/l
 Exposure time: 48 h
 Analytical monitoring: no

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Method: DIN 38412 Part 15

Toxicity to daphnia and other aquatic invertebrates : Immobilization EC50
Species: Daphnia magna (Water flea)
Concentration: > 10,000.00 mg/l
Exposure time: 24 h
Analytical monitoring: no

Toxicity to algae : Cell multiplication inhibition test EC10
Species: Desmodesmus subspicatus (green algae)
Dose: > 10,000.00 mg/l
Exposure time: 8 d
Analytical monitoring: no
Method:

Toxicity to bacteria : Cell multiplication inhibition test EC10
Species: Pseudomonas putida
Dose: > 10,000.00 mg/l
Exposure time: 16 h
Analytical monitoring: no
Method:

Additional ecological information : no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of in accordance with local regulations.
Contact waste disposal services.

SECTION 14. TRANSPORT INFORMATION

DOT
Not dangerous goods

TDG
Not dangerous goods

IATA
Not dangerous goods

IMDG-CODE
Not dangerous goods

RID
Not dangerous goods

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SECTION 15. REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards
SARA 311/312 Hazards : No SARA Hazards

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

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.

US State Regulations

Massachusetts Right To Know Components : Glycerol 56-81-5
Listed

Pennsylvania Right To Know Components : Glycerol 56-81-5
Listed

New Jersey Right To Know Components : Glycerol 56-81-5
Listed

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.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 1
Flammability: 1
Physical hazards: 0
Reactivity: 0

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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