

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Classification according to Regulation (EC) No. 1272/2008 [CLP]

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

| | |
|--|---|
| Product code | R0611 |
| Product name | 6x DNA Loading Dye |
| Unique Formula Identifier (UFI) | Not Applicable |
| Chemical Name | Not Applicable |
| REACH registration number | No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired. |

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

| | |
|---------------------------------|--|
| Relevant identified uses | Research Use Only. Not for use in diagnostic procedures |
| Use Description Code | SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen), PROC15 - Use as laboratory reagent, PC21 - Laboratory chemicals, SU24 - Scientific research and development |
| Uses advised against | Not for consumer use. |

Details of the supplier of the safety data sheet

Manufacturer / Supplier

Thermo Fisher Scientific Baltics UAB
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LIFE TECHNOLOGIES EUROPE BV
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2665 NN BLEISWIJK
NETHERLANDS
31-(0)180 392 400
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Emergency telephone number

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

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[or Dangerous Goods] Incident. Spill, Leak, Fire,
Exposure, or Accident. Call CHEMTREC

1-703-527-3887
Outside the USA + Canada: 1-703-741-5970

Country Specific Emergency Number (if available):

CHEMTREC Ireland (Dublin) + (353)-19014670 (Greeting Language: English and Irish)
CHEMTREC UK (London) + (44)-870-8200418 (Greeting Language: English)

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical hazards

Not Hazardous

Health hazards

Not Hazardous

Environmental hazards

Not Hazardous

Additional information

Not Applicable

Label elements

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

Hazard pictograms

None

Signal Word

None

Hazard Statements

Not Applicable

EU Specific Hazard Statements

Not Applicable

Precautionary Statements

Prevention

Not Applicable

Response

Not Applicable

Storage

Not Applicable

Disposal

Not Applicable

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Other hazards

Not Applicable.

SECTION 3: Composition/information on ingredients

Mixtures

We recommend handling all chemicals with caution.

| Chemical Name | CAS No | EINECS-No. | Weight-% | REACH registration number | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------|---------|------------|----------|---------------------------|---|
| Glycerin | 56-81-5 | 200-289-5 | 60-80 | 01-2119471987-18-X XXX | Not classified |

| Chemical Name | Specific concentration limit (SCL) | M-Factor | Acute Toxicity Estimate |
|---------------|------------------------------------|----------|-------------------------|
| Glycerin | - | - | - |

SECTION 4: First aid measures

Description of first aid measures**Skin contact**

Rinse skin with water. Immediate medical attention is not required.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

Inhalation

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

Notes to Physician

Treat symptomatically.

Most important symptoms and effects, both acute and delayed

Not Applicable

Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

Extinguishing media**Suitable extinguishing media**Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.**Unsuitable extinguishing media**

No information available.

Special hazards arising from the substance or mixture Not known**Hazardous Combustion Products**

No data available.

Advice for firefighters

Standard procedure for chemical fires.

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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See section 8 for more information

Environmental precautions

No special environmental precautions required.

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

Reference to other sections

See section 8 for more information.

SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Storage Conditions

Store: at room temperature or at 4 °C for periods up to 12 months. For longer periods, store at -20 °C.

Specific end use(s)

Research Use Only. Not for use in diagnostic procedures.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure Limits

| Chemical Name | EU OEL (TWA) | EU OEL (STEL) | EU Skin Notation |
|---------------------|--------------|---------------|------------------|
| Glycerin 56-81-5 | None | None | None |

| Chemical Name | Austria | Belgium (TWA) | Czech Republic |
|---------------------|---------|----------------------|--|
| Glycerin 56-81-5 | None | 10 mg/m ³ | 10 mg/m ³ TWA 15 mg/m ³ Ceiling |

| Chemical Name | Denmark (TWA) | Finland OEL (TWA) | France OEL (VME) |
|---------------------|---------------|-------------------|----------------------|
| Glycerin 56-81-5 | None | None | 10 mg/m ³ |

| Chemical Name | Germany OEL (TWA) | Ireland (TWA) | Italy OEL (TWA) |
|---------------------|---|---------------|-----------------|
| Glycerin 56-81-5 | 200 mg/m ³ exposure factor 2 | None | None |

| Chemical Name | Lithuania OEL (TWA) | Netherlands OEL (MAC) | Norway |
|---------------------|---------------------|-----------------------|--------|
| Glycerin 56-81-5 | None | None | None |

| Chemical Name | Poland | Portugal | Spain OEL (TWA) |
|---------------------|--------------------------|--------------------------|----------------------|
| Glycerin 56-81-5 | 10 mg/m ³ TWA | 10 mg/m ³ TWA | 10 mg/m ³ |

| Chemical Name | Sweden - Occupational Exposure Limits - TLVs (LLVs) | Switzerland | United Kingdom |
|---------------------|---|--|---------------------------------|
| Glycerin 56-81-5 | None | 100 mg/m ³ STEL 50 mg/m ³ TWA | 10 mg/m ³ TWA (mist) |

Derived No Effect Level (DNEL)

See table for values

| Component | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|-------------------------------|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Glycerin 56-81-5 (60-80) | None | None | None | None |

| Component | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|-------------------------------|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| Glycerin 56-81-5 (60-80) | None | None | DNEL = 56mg/m ³ | None |

Predicted No Effect Concentration (PNEC)

See table for values

| Chemical Name | Fresh water sediment | Fresh water | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture) |
|---------------------|-----------------------------|-------------|--------------------|------------------------------------|---------------------------|
| Glycerin 56-81-5 | PNEC = 3.3mg/kg sediment dw | None | PNEC = 8.85mg/L | PNEC = 1000mg/L | PNEC = 0.141mg/kg soil dw |

| Component | Marine water | Marine water sediment | Marine water Intermittent | Food chain | Air |
|-------------------------------|-------------------|------------------------------|---------------------------|------------|------|
| Glycerin 56-81-5 (60-80) | PNEC = 0.0885mg/L | PNEC = 0.33mg/kg sediment dw | None | None | None |

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Engineering Measures Ensure adequate ventilation, especially in confined areas.

Exposure controls

Personal protection equipment

Respiratory protection In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand protection Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

Eye protection Tight sealing safety goggles.

Skin and Body Protection Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | | |
|---|------------|------------|
| Physical state | liquid | |
| Colour | No data | |
| Odour | No data | |
| Molecular Weight | No data | |
| Melting point / melting range | °C No data | °F No data |
| Boiling point / boiling range | °C No data | °F No data |
| Flammability (solid, gas) | No data | |
| Lower explosion limit | No data | |
| Upper explosion limit | No data | |
| Flash point | °C No data | °F No data |
| Autoignition Temperature | °C No data | °F No data |
| Decomposition temperature | °C No data | °F No data |
| pH | No data | |
| Evaporation rate | No data | |
| Viscosity | No data | |
| Solubility | No data | |
| Partition coefficient: n-octanol/water | No data | |
| Vapour Pressure | No data | |
| Specific gravity | No data | |
| Relative density | No data | |
| Vapour density | No data | |
| Explosive properties | No data | |
| Oxidising properties | No data | |
| Particle characteristics | No data | |

Other information

Information with regards to physical hazard classes

No information available

Other safety characteristics

No information available

SECTION 10: Stability and reactivity

| | |
|---|---|
| Reactivity | None known. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous reaction has not been reported. |
| Conditions to avoid | No information available. |
| Incompatible materials | No dangerous reaction known under conditions of normal use. |
| Hazardous decomposition products | No data available. |

SECTION 11: Toxicological information

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information No acute toxicity information is available for this product

Acute Toxicity

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|---------------------|-------------------|-----------------------------|
| Glycerin | = 12600 mg/kg (Rat) | > 10 g/kg(Rabbit) | >570mg/m ³ (Rat) |

Principal Routes of Exposure

Skin corrosion/irritation Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin sensitisation Data are conclusive but insufficient for classification

Specific target organ toxicity (STOT) – single exposure Data are conclusive but insufficient for classification

Specific target organ toxicity (STOT) – repeated exposure Data are conclusive but insufficient for classification

Carcinogenicity Data are conclusive but insufficient for classification

Germ cell mutagenicity Data are conclusive but insufficient for classification

Reproductive Toxicity Data are conclusive but insufficient for classification

Aspiration Hazard Data are conclusive but insufficient for classification

Information on other hazards

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

SECTION 12: Ecological information

Toxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates | Toxicity to fish | Microtox Data | log Pow |
|---------------|-------------------|---|-------------------|-------------------|-------------|
| Glycerin | No data available | No data available | No data available | No data available | logPow-1.75 |

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Mobility in soil No information available.

Results of PBT and vPvB assessment This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors

Other adverse effects

Persistent Organic Pollutant This product does not contain any known or suspected substance

Ozone depletion potential (ODP) This product does not contain any known or suspected substance

SECTION 13: Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

SECTION 14: Transport information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

| | |
|-----------------------------------|----------------|
| UN number or ID number | Not Applicable |
| UN proper shipping name | Not Applicable |
| Transport hazard class(es) | Not Applicable |
| Packing group | Not Applicable |

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Environmental hazards

Not Applicable

Special precautions for user

Not Applicable

Maritime transport in bulk according to IMO instruments

Not Applicable.

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture**Substances of Very High Concern**

None

Substance subject to authorisation per REACH Annex XIV

None

Restricted substances under EC 1907/2006, Annex XVII

None

Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)

None

Regulation (EU) No 2019/1021 (Stockholm Convention – persistent organic pollutants)

None

EU - Substances Depleting the Ozone layer (1005/2009)

None

German Water hazard classes (Wassergefährdungsklassen)

| Chemical Name | Weight-% | Water hazard class (WGK) |
|---------------|----------|--|
| Glycerin | 60-80 | hazard class 1 - slightly hazardous to water |

Other International Inventories

| Chemical Name | EINECS (European Union) | ELINCS (European List of Notified Chemical Substances) | ENCS (Japan) | PICCS (Philippines) |
|---------------|-------------------------|--|--------------|---------------------|
| Glycerin | Listed | - | Listed | Listed |

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| Chemical Name | AICS (Australia) | South Korea (KECL) | Canada (DSL) | NDSL |
|---------------|------------------|--------------------|--------------|------|
| Glycerin | Listed | Listed | Listed | - |

Chemical safety assessment

No Chemical safety assessment has been carried out.

SECTION 16: Other information

Reason for revision Update according to Commission Regulation EU No. 2020/878
Revision number 7
Revision date 08-Jan-2024

References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

Classification and procedure used to derive the classification for mixtures according to Regulation (EC)

1272/2008 [CLP]:

Not classified

Abbreviations and acronyms

TWA - Time-Weighted Average

OELs - Occupational Exposure Limits

STEL - Short Term Exposure Limit

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

KECL - Korean Existing and Evaluated Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

CEPA - Canadian Environmental Protection Act

EPA - Environmental Protection Agency

OSHA - Occupational Safety and Health Administration of the US Department of Labour

IATA - International Air Transport Association

DOT - Department of Transportation

IMDG - International Maritime Dangerous Goods

ACGIH - American Conference of Governmental Industrial Hygienists

NIOSH - National Institute for Occupational Safety and Health

AIHA - American Industrial Hygiene Association

HMIS - Department of Defense Hazardous Materials Information System

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

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