

Safety Data Sheet

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

Identification of the substance or mixture

Product code A25742
Product name PowerUp™ SYBR™ Green Master Mix

Company/undertaking identification

Thermo Fisher Scientific Baltics UAB
V.Graiciuno 8
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Lithuania
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Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

24 hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident. Spill, Leak, Fire, Exposure, or Accident. Call CHEMTREC Within the USA + Canada: 1-800-424-9300 and +1 703-527-3887
Outside the USA + Canada: +1 703-741-5970

Country Specific Emergency Number (if available):

For research use only. Not for use in diagnostic procedures

SECTION 2: Hazards identification

GHS - Classification

Signal Word
None

Hazard pictograms

None

Health hazards
Not Hazardous

Physical hazards
Not Hazardous

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Environmental hazards

Not Hazardous

Hazard Statements

Not Applicable

Precautionary Statements**Prevention**

Not Applicable

Response

Not Applicable

Storage

Not Applicable

Disposal

Not Applicable

Other hazards

Not Applicable

HMIS

| | |
|--------------|---|
| Health | 0 |
| Flammability | 0 |
| Reactivity | 0 |

SECTION 3: Composition/information on ingredients

| Component | CAS No. | Common name | EINECS-No | Weight-% |
|-------------------------------------|------------|-------------|-----------|----------|
| Glycerol 56-81-5 (10-30) | 56-81-5 | - | 200-289-5 | 10-30 |
| SODIUM AZIDE 26628-22-8 (<0.1) | 26628-22-8 | - | - | <0.1 |

We recommend handling all chemicals with caution.

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SECTION 4: First aid measures

Description of first aid measures

| | |
|---------------------------|---|
| Skin contact | Rinse with plenty of 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 (CO ₂). Foam. Dry chemical. |
| Unsuitable extinguishing media | No information available. |

Special hazards arising from the substance or mixture

Not known.

Advice for fire-fighters

Standard procedure for chemical fires.

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 detail

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.

Conditions for safe storage, including any incompatibilities

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

Specific end use(s)

For research use only. Not for use in diagnostic procedures.

SECTION 8: Exposure controls/personal protection

Control parameters

| Chemical Name | OSHA PEL | OSHA PEL (Ceiling) | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|---------------|---|--------------------|-----------------|------------------|
| Glycerol | 15 mg/m ³ 5 mg/m ³ | None | None | None |
| SODIUM AZIDE | None | None | None | None |

| Chemical Name | Brazil - OEL - TWAs (LTs) | Brazil - OEL - Ceilings | Brazil - OEL - Skin Designations |
|---------------|---------------------------|-------------------------|----------------------------------|
| Glycerol | None | None | None |
| SODIUM AZIDE | None | None | None |

Engineering measures Ensure adequate ventilation, especially in confined areas.

Exposure controls

Personal Protective 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.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | | |
|---|--------------------------------|--------------------------------|
| Appearance | liquid | |
| Odor | No data available | |
| pH | Mixture has not been tested | |
| Melting point / melting range | °C Mixture has not been tested | °F Mixture has not been tested |
| Boiling point / boiling range | °C Mixture has not been tested | °F Mixture has not been tested |
| Flash point | °C Mixture has not been tested | °F Mixture has not been tested |
| Autoignition Temperature | °C Mixture has not been tested | °F Mixture has not been tested |
| Decomposition temperature | °C Mixture has not been tested | °F Mixture has not been tested |
| Evaporation rate | No data | |
| Flammability (solid, gas) | Not Applicable | |
| Upper explosion limit | Mixture has not been tested | |
| Lower explosion limit | Mixture has not been tested | |
| Vapor Pressure | Mixture has not been tested | |
| Relative density | Mixture has not been tested | |
| Specific gravity | No data | |
| Solubility | Soluble in water | |
| Partition coefficient: n-octanol/water | No data available | |
| Viscosity | No data | |
| Explosive properties | Mixture has not been tested | |
| Oxidizing properties | No data | |

Other information

No data 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 | None under normal processing. |
| Incompatible materials | No dangerous reaction known under conditions of normal use. |
| Hazardous decomposition products | No data available. |

SECTION 11: Toxicological information

Information on toxicological effects

| Chemical Name | LD50 (oral, rat/mouse) | LD50 (dermal, rat/rabbit) | LC50 (inhalation, rat/mouse) |
|---------------|------------------------|---------------------------|------------------------------|
| Glycerol | = 12600 mg/kg Oral | No data available | >570mg/m ³ (Rat) |
| SODIUM AZIDE | = 27 mg/kg (Rat) | No data available | No data available |

Principal Routes of Exposure

| | |
|--|--|
| Skin corrosion/irritation | Conclusive but not sufficient for classification |
| Serious eye damage/irritation | Conclusive but not sufficient for classification |
| Respiratory or skin sensitization | Conclusive but not sufficient for classification |
| Specific target organ toxicity (STOT) – single exposure | Conclusive but not sufficient for classification |
| Specific target organ toxicity (STOT) – repeated exposure | Conclusive but not sufficient for classification |
| Carcinogenicity | Conclusive but not sufficient for classification |
| Germ cell mutagenicity | Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment. |
| Reproductive toxicity | Conclusive but not sufficient for classification |
| Aspiration hazard | Conclusive but not sufficient for classification |

SECTION 12: Ecological information

Toxicity

The environmental impact of this product has not been fully investigated.

| Chemical Name | Freshwater Algae Data | Water Flea Data | Freshwater Fish Species Data | Microtox Data | log Pow |
|---------------|-----------------------|---------------------------------------|------------------------------|-------------------|-------------------|
| Glycerol | No data available | Daphnia magna EC50>500 mg/L (24 h) | No data available | No data available | logPow-1.76 |
| SODIUM AZIDE | No data available | No data available | No data available | No data available | No data available |

Persistence and degradability Inherently biodegradable.

Bioaccumulative potential Material does not bioaccumulate.

Results of PBT and vPvB assessment

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

Other adverse effects No information available.

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 accordance with 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 classified as dangerous in the meaning of transport regulations

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

Environmental hazards

Not Applicable

Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Applicable.

SECTION 15: Regulatory information

| Component | US TSCA |
|-------------------------------------|---------|
| Glycerol 56-81-5 (10-30) | Listed |
| SODIUM AZIDE 26628-22-8 (<0.1) | Listed |

US Federal Regulations**SARA 313**

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers.

| <u>Chemical Name</u> | <u>CAS No.</u> | <u>Weight-%</u> | <u>SARA 313 - Threshold Values</u> |
|----------------------|----------------|-----------------|------------------------------------|
| SODIUM AZIDE | 26628-22-8 | <0.1 | 1.0 |

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

National Regulations - Brazil

| <u>Chemical Name</u> | <u>CAS No.</u> | <u>Brazil - National Agency for Sanitary Surveillance (ANVISA)</u> | <u>Brazil - National List of Carcinogen Agents to Humans (LINACH)</u> |
|----------------------|----------------|--|---|
| Glycerol | 56-81-5 | Not Listed | Not Listed |
| SODIUM AZIDE | 26628-22-8 | Not Listed | Not Listed |

SECTION 16: Other information

Reason for revision SDS sections updated.
Revision number 4
Revision date 22-Mar-2019

For research use only. Not for use in diagnostic procedures.

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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>

"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"

End of Safety Data Sheet