

# Material Safety Data Sheet

#### 1. Identification of the substance/mixture and of the supplier

Product name Recombinant human GDF-15 protein

Manufacturer: Qkine Ltd

1 Murdoch House, Garlic Row, Cambridge, CB5 8HW, United Kingdom

Phone: +44 (0)1223 491486 Email: support@gkine.com

Country of origin United Kingdom

Emergency telephone number In an emergency call **999** or **112** (or local emergency number)

111 - medical advice in England, Scotland & Wales (NHS Wales 0845 46 47) 18001 111 on a textphone or www.interpreternow.co.uk/nhs111 for NHS British

Sign Language (BSL) interpreter service

#### 2. Hazards identification

Classification of substance or mixture Not a hazardous substance or mixture

GHS classification Does not meet the classification criteria of the EC Directives 67/548/EEC,

1999/45/EC or 1272/2008

GHS labelling Does not need to be labelled in accordance with EC directives or respective

national laws.

Special hazards None

#### 3. Composition/information on ingredients

Ingredients Highly purified recombinant protein originally produced in *E.coli* (non-pathogenic laboratory strain). Contains no material of animal or human

origin. Not produced in baculovirus. For research use only.

This product does not contain any hazardous substances at concentrations of 1% or greater. This product is not known to contain carcinogens at a

concentration of 0.1% or greater. No MSDS is required.

#### 4. First aid measures

Eye contact: May cause eye irritation. Immediately flush eyes with plenty of water, then

remove any contact lenses and continue to flush eyes with water for 15

minutes. Seek immediate medical attention if irritation persists

Skin contact: May cause skin irritation. Immediately wash off with plenty of soap and water.

Inhalation: No recognised inhalation hazard. If inhaled, remove to fresh air. If breathing

becomes difficult, seek immediate medical attention.

Ingestion: No recognised ingestion hazard. If ingested, rinse out mouth with plenty of

water.

## 5. Fire-fighting measures

Classification of substance or mixture The product is non-flammable.

Suitable extinguishing media Use extinguishing media appropriate to the surrounding environment

Specific hazards arising from substance No specific hazards arising from substance

Protective equipment No special precautions required





#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Environmental precautions

Do not allow product to enter the drains

Methods & material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Use absorbent material to soak up the spillage and dispose of in accordance with applicable laws, environmental legislation and good laboratory practices.

#### 7. Handling and storage

Handling Avoid inhalation. Avoid contact with eyes, skin, and clothing.

Storage Keep vial tightly closed. Store at -80 °C until use.

Additional information See certificate of analysis for further information on handling and storage.

## 8. Exposure controls / personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Engineering controls

Use in a laboratory fume hood

Eye

Wear appropriate eye protection.

Skin

Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Inhalation

Respiratory equipment is not required.

## 9. Physical and chemical properties & safety characteristics

Physical state Lyophilized Colour White Odour None Melting point/freezing point No data available **Boiling point** No data available Flammability No data available **Explosion limits** No data available No data available Flash point No data available Autoignition temperature Decomposition temperature No data available рΗ No data available Viscosity No data available No data available Solubility in water Partition co-efficient No data available Vapour pressure No data available No data available Density No data available Relative vapour density Particle characteristics No data available





# 10. Stability and reactivity

Reactivity No data available

Chemical stability Stable under normal use conditions

Conditions to avoid None Incompatible materials None

# 11. Toxicological information

Information on toxicological effects	Does not present an acute toxicity hazard based on known or supplied
	information

## 12. Ecological information

Toxicity	Under normal use and conditions, this product is not expected to have an adverse environmental impact
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available
Other adverse effects	No data available

## 13. Disposal considerations

Waste treatment methods	Dispose of in accordance with applicable laws, environmental legislation and
	good laboratory practices.

# 14. Transport information

UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	Not regulated
Special precautions for user	Not regulated
Transport in bulk	Not regulated

# 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	Not applicable
Chemical safety assessment	Not applicable



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#### 16. Other information

Qkine products are not for use in humans and are not for diagnostic or therapeutic use. Customers agree to comply with the provisions of applicable international and local statutes, rules, regulations, ordinances and orders when using Qkine products.

Qkine products are for internal research purposes only and not for resale or transfer in any form (including as part of a kit) to a third party unless agreed with Qkine in writing.

Qkine is not responsible for patent infringement or other violations which may occur with the use of these products.

