

QCAL

Material Safety Data Sheet

QCAL

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QCAL

1. PRODUCT INFORMATION

1.1 Product name	QCAL, full protein; QCAL peptide mix		
Product number	PQ-CS-5370, PQ-CS-5371		
1.2 Usage	laboratory chemicals, manufacture of substances		
1.3 Manufacturer	PolyQuant GmbH Industriestr. 1 93077 Bad Abbach Germany	Supplier	PolyQuant GmbH Industriestr. 1 93077 Bad Abbach Germany
1.4 Emergency Tel.	PolyQuant GmbH Poisons Information Centre Munich	Mo-Fr: 9-17	+49 9405 96 999 10 +4989 19240

2. HAZARDS IDENTIFICATION

2.1 Classification of substance

Not a hazardous substance according to Regulation (EC) No. 1272/2008.
This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Labeling

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards

none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance recombinant synthetic protein, QCAL approx. 100% (w/w)

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove from source of exposure. If not breathing, give artificial respiration.
Skin contact	Wash off with soap and flush with copious amounts of water.
Eye contact	Check for contact lenses and remove if present. Flush eyes with water.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. If signs of toxicity occur, seek medical attention.

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4.2 Most important symptoms and effects, both acute and delayed

None known

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES**5.1 Extinguishing Media**

Water spray, carbon dioxide, dry chemical foam.

5.2 Unusual fire and explosion hazards

As with any organic material, this product may produce toxic carbon monoxide and dioxide fumes if heated to decomposition and airborne dust may present an explosion hazard.

5.3 Advice for firefighters

No special provisions required beyond normal firefighting equipment such as flame and chemical resistant clothing and self-contained breathing apparatus.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Wear appropriate protective clothing and gloves.

Avoid dust formation. Avoid breathing vapors, mist or gas.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Dispose of material in accordance with all applicable Federal, State and local regulations.

Refer to Section 13

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

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Protect from moisture exposure.
Recommended storage temperature: -20°C

7.3 Specific end uses no data available

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Eye/face protection

Either safety glasses or goggles should be worn.

Skin protection

Handle with gloves to prevent skin contact.
Wash and dry hands.

Body Protection

Sensitive individuals should wear dust masks/respirators, protective gloves, eye protection, lab coat, apron or other protective clothing to minimize contact.

Respiratory protection

Respiratory protection is not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State	white to tan powder
Odour	N/A
Odour Threshold	N/A
pH	N/A
Melting point/Freezing point	N/A
Initial Boiling Point/Boiling Point Range	N/A
Evaporation Rate	N/A
Flammability (solid, gas)	N/A
Upper/Lower Flammability or Explosive Limits	N/A
Vapour Pressure	N/A
Vapour Density (Air =1)	N/A
Evaporation Rate	N/A
Specific Gravity	N/A
Solubility	N/A
Partition coefficient: n - octanol/water	N/A
Auto - ignition temperature	N/A
Decomposition temperature	N/A

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10. STABILITY AND REACTIVITY

10.1 Reactivity	no data available
10.2 Chemical stability	no data available
10.3 Possibility of hazardous reactions	no data available
10.4 Conditions to avoid	High temperature; ionizing radiation
10.5 Incompatible materials	Strong oxidizing agents
10.6 Hazardous decomposition products	Product may produce toxic carbon monoxide and dioxide fumes if heated to decomposition and airborne dust may present an explosion hazard. Hazardous Polymerization is not anticipated.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	no data available
Dermal corrosion/irritation	no data available
Serious eye damage/eye irritation	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	no data available
Aspiration hazard	no data available
Potential health effects	
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

12. ECOLOGICAL INFORMATION

12.1 Toxicity	not determined
12.2 Persistence and degradability	not determined
12.3 Bioaccumulative potential	not determined
12.4 Mobility in soil	not determined
12.5 Results of PBT and vPvB assessment	no data available

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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.

14. TRANSPORT INFORMATION

14.1 UN number	Not listed
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	N/A
14.4 Packaging group	N/A
14.5 Environmental hazards	N/A
14.6 Special precautions for user	no data available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

15.2 Chemical Safety Assessment
no data available

16. OTHER INFORMATION

Disclaimer:

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. PolyQuant GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.