



SECTION 1 - IDENTIFICATION

Product Identifier

Product Name: Q CEL – Inorganic Microspheres
Proper Shipping Name: Not Applicable
Other means of identification: Hollow Microspheres
Recommended use of the chemical and restrictions on use: Specialty engineering additive in plastics or polymers.

Details of manufacturer or importer: TROJAN FIBREGLASS PTY LTD
18-20 Torrens Ave, Cardiff NSW 2285 Australia
Ph: (02)49426940 Fax: (02)49426941

Emergency phone number: Business Hours (02)49426940 After Hours 0425 292 391 Emergency 000

SECTION 2 – HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

Not classified as Hazardous or Dangerous goods according to WHS Regulations, ADG Code, Globalised Harmonised System of classification and labelling of Chemicals (GHS).

Label Elements

Pictograms: -

Signal Word: -

Hazards Statement(s)

Not Applicable

Precautionary Statement(s) General

Not Applicable

Precautionary Statement(s) Prevention

Not Applicable

Precautionary Statement(s) Response

Not Applicable

Precautionary Statement(s) Storage

Not Applicable

Precautionary Statement(s) Disposal

Not Applicable

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Cas No	% Weight	Name	Hazardous Chemical (according to GHS standards)
50815-87-7	>99.5	Sodium Borosilicate Powder	X
63148-57-2	<0.5	Siloxane, Methyl Hydrogen	✓

SECTION 4 – FIRST AID MEASURES

Description of necessary first aid measures

Eye Contact Immediately flush eyes with clean water for at least 15 minutes. If irritation persists, get medical help.

Skin Contact If irritation occurs to the skin, rinse with soap and water.

Inhalation If inhaled immediately remove affected person to fresh air. If irritation persists, get medical help.

Ingestion Normally, ingestion of this material is unlikely. If it does occur, drink plenty of water for at least 15 minutes, watch the person for several days to make sure that gastrointestinal disturbance does not occur. Do not let the person vomit unless required by medical personnel. If disturbance persists, get medical help.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguisher equipment

Non-Flammable, but packaging material may burn.
Foam, Dry Chemical Powder, CO2 and Water as extinguishing media.

Specific hazards arising from the chemical

None Known

Special protective equipment and precautions for fire fighters

Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus full protective gear.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Refer to Section 8 of this SDS.

Methods and materials for containment and cleaning up

Sweep or vacuum up material and collect in a suitable container for disposal.

Environmental precautions

Non-hazardous in water

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling

Prevent the packing material from be damaged and keep the product inside the packing material to minimize the generation of dusts.

Conditions for safe storage, including any incompatibilities

Store in a cool dry area.

Storage Incompatibility

Not Applicable

Must not be stored together

Not Applicable

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

Ingredient	TWA	STEL	Notes
Nuisance Dust, Inspirable	10mg/m ³	Not Available	Not Available

If heated above 150°C the siloxane surface coating will start decomposing and release trace amounts of formaldehyde vapour.

Formaldehyde

TWA: 1ppm/1.2mg/m³ STEL: 2ppm/2.5mg/m³

Formaldehyde is a Carcinogen Category 2 – Probable Human Carcinogen

Appropriate Engineering Controls

Production areas are closed off and a required relative humidity is maintained. Use in well ventilated areas.

Personal Protection



Eye and Face Protection

Wear a suitable mask when working in an environment where dust concentration is high. Wear safety glasses and face shield.

Skin Protection

PE/EVAL/PE/PVA/TEFLON/LATEX are the most ideal choice for using this product. Wear long sleeved long pants work clothing. Skin irritation occurs primarily at contact areas such as neck and waist.

Respiratory Protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent).

Thermal Hazards

Not Available

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	White	Bulk Density (kgm/m ³)	150-500
Physical State	Powder	Partition coefficient n-octanol / water	Not Applicable
Odour	Not Applicable	Auto-ignition temperature (°C)	Not Applicable
Odour Threshold	Not Applicable	Decomposition temperature	>150°C
Ph (as supplied)	7-9	Viscosity (cps)	Not Applicable
Melting point/freezing point (°C)	>350	Molecular weight (g/mol)	Not Applicable
Initial boiling point and boiling range (°C)	Not Applicable	Taste	Not Applicable
Flash Point (°C)	Non-Flammable	Explosive properties	Not Applicable
Evaporation point	Not Applicable	Oxidising properties	Not Applicable
Flammability	Non-Flammable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Upper Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	<0.5
Lower Explosive Limit (%)	Not Applicable	Gas group	Not Applicable
Vapour Pressure (kPa)	Not Applicable	pH as a solution (1%)	Not Applicable
Solubility in water (g/L)	Insoluble	VOC g/L	Not Applicable
Vapour Density (Air=1)	Not Applicable		

SECTION 10 – STABILITY AND REACTIVITY

Reactivity

See Section 7

Chemical Stability

Not Applicable

Possibility of hazardous reactions

See Section 7

Conditions to avoid

Conditions that cause dust cloud

Incompatible materials

See Section 7

Hazardous decomposition products

If heated above 150°C the siloxane surface coating will start decomposing and release trace amounts of formaldehyde vapour.

Formaldehyde

TWA: 1ppm/1.2mg/m³ STEL: 2ppm/2.5mg/m³

Formaldehyde is a Carcinogen Category 2 – Probable Human Carcinogen

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects

Microspheres Dermal (rabbit) LD50: >5000 mg/kg *

Eye Irritation: Not an Eye Irritant requiring labelling with R36.

When similar materials were tested for acute eye irritation in rabbits they caused iritis grade 1, redness was observed grade 1-2, chemosis grade 2 was observed as well as fluorescein stain retention.

Two Q-CEL Microsphere products were tested for Eye Irritation in the USA in 2000: Test 1/ 5mg placed into the conjunctival sac: No corneal opacity was noted in any observation period. Iritis of 1 noted in 1 of 3 eyes at 1hr, cleared by 24 hrs. Conjunctival irritation scores of 2 (redness), 2 (chemosis), 2 (discharge) at 1hr noted in 3 eyes that had cleared by 24hrs. Test 2/ 5mg placed into the conjunctival sac: No corneal opacity or iritis was noted in any observation period. Conjunctival irritation scores of 1-2 (redness), 0-2 (chemosis), 0-2 (discharge) at 1hr noted in 3 eyes that had cleared by 24hrs.

Human Experience: 20 years' experience handling the product in a manufacturing facility have not lead to any reported skin, eye or respiratory irritation effects.

Skin Irritation: When a similar product was tested for skin irritation potential, it caused very slight erythema to abraded skin. Its primary skin irritation index was 0.04, and so was not considered to be a primary skin irritant.

Carcinogenicity

The International Agency for Research on Cancer (IARC), agency of the World Health Organization (WHO), has determined that Silica Amorphous is a non-carcinogenic material because the evidence is inadequate to prove that Silica Amorphous can cause humans and experimental animals to develop cancer.

Acute Toxicity	X	Carcinogenicity	X
Skin Irritation/Corrosion	X	Reproductivity	X
Serious Eye Damage/Irritation	X	STOT - Single Exposure	X
Respiratory or Skin Sensitisation	✓	STOT - Repeated Exposure	X
Mutagenicity	X	Aspiration Hazard	X

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

Non-Toxic to aquatic life, avoid contaminating waterways, will float on surface due to hollow nature, may block systems.

Persistence and degradability

Not Available

Bio accumulative potential

Not Available

Mobility in soil

Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Water treatment methods

Product /Packaging disposal

Dispose of according to federal, state and local regulations

SECTION 14 - TRANSPORT INFORMATION

Labels Required

Not Applicable

Marine Pollutant:

NO

HAZCHEM:

Not Applicable

Land Transport (ADG)

Not Applicable

Air Transport (IATA-Code)

Not Applicable

Sea Transport (IMDG-Code)

Not Applicable

SECTION 15 - REGULATORY INFORMATION

Regulatory Information

Australian Chemical Control Schemes

NICNAS – AICS *All ingredients are on the Australian Inventory of Chemical Substances.*

Aust. Pesticides & Veterinary Medicine Authority - Ag & Vet Chemicals

Therapeutic Goods Administration - Medicines

Food Standards Australian & New Zealand - Food

Chemicals

Not applicable

Not applicable

Not applicable

Not applicable

Poison Schedule

Not Applicable

International Regulations

Ozone-depleting substances(ODS): Not Applicable
Persistent Organic Pollutants: Not Applicable
Export Notification requirements: Not Applicable

SECTION 16 - OTHER INFORMATION**Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average
PC-STEL: Permissible Concentration-Short Term Exposure Limit
IARC: International Agency for Research on Cancer
ACGIH: American Conference of Governmental Industrial Hygienists
STEL: Short Term Exposure Limit
TEEL: Temporary Emergency Exposure Limit
IDLH: Immediately Dangerous to Life or Health Concentrations
OSF: Odour Safety Factor
NOAEL: No Observed Adverse Effect Level
LOAEL: Lowest Observed Adverse Effect Level
TLV: Threshold Limit Value
LOD: Limit of Detection
OTV: Odour Threshold Value
BCF: Bioconcentration Factors
BEI: Biological Exposure Index

Contact Person/Point: Managing Director/Operations Manager (+61 2 49426940)
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