

In an emergency, contact :-

Europe: + 46 18 56 5900  
USA: +1 434 979 2319  
Japan: +81 422 28 1233

## Material Safety Data Sheet



### Section 1 – Product and Company Identification

**Product Name:** ISOLUTE C4  
**Reference Code:** 390  
**Manufacturers Name:** Biotage GB Limited,  
Dyffryn Industrial Estate, Hengoed, CF82 7RJ, UK

### Section 2 – Composition/Information on Ingredients

**CAS Number:** None.  
**Chemical Families:** Surface modified amorphous silica.  
**Chemical Synonyms:** **Silica** is also known as *Amorphous Silica* (CAS No. 7631-86-9).

### Section 3 – Hazards Identification

Harmful - May cause eye irritation, may cause skin irritation, do not breathe dust.

### Section 4 – First Aid Measures

**Inhalation:** Symptoms of over exposure may include cough and discomfort. If large amounts are inhaled, move affected person to fresh air. If breathing is difficult give oxygen. If breathing has stopped begin resuscitation measures. Seek medical attention.  
**Skin Contact:** Wash with soap and water.  
**Eye Contact:** Contamination of the eyes should be treated by immediate and prolonged (at least 15 minutes) irrigation of the eyes with copious amounts of water by separating the eyelids with the fingers. If redness or discomfort persist, seek medical attention.  
**Ingestion:** Wash out mouth with copious amounts of water if person is conscious. Seek medical attention.

### Section 5 – Fire-Fighting Measures

**Extinguishing Media:** Appropriate to surroundings.  
**Special Fire Fighting Procedures:** Wear full protective clothing and self contained positive pressure breathing apparatus certified by NIOSH when fighting chemically related fires.  
**Noteable Fire and Explosion Hazards:** Emits small amounts of flammable fumes under fire conditions.

### Section 6 - Accidental Release Measures

Avoid inhaling dust. Wearing appropriate personal protective equipment, shovel or sweep up dust, place in a bag and hold for waste disposal. Avoid raising dust. Vacuum the remainder of the smaller quantities using a HEPA-type vacuum. Ventilate area and wash spill site after manual pickup is complete.

### Section 7 – Handling and Storage

**Handling:** Do not breathe dust and avoid contact with skin and eyes. Wash thoroughly after handling and maintain good housekeeping practices. Avoid creating dust.  
**Storage:** Do not store with incompatible materials. Store in a cool, dry place, out of direct sunlight. Seal packaging after use.

### Section 8 – Exposure Controls/Personal Protection

**Ventilation:** Adequate ventilation is required to protect personnel from exposure to chemical vapours or dusts exceeding occupational exposure limits and to minimise fire hazards.  
**Respiratory:** Use NIOSH/MSHA approved respirator.  
**Eyes:** Safety glasses are considered minimum protection. Chemical safety goggles or face shield may be necessary depending on quantity of material and conditions of use. Emergency eye wash fountains should be available in the vicinity of any possible exposure.  
**Skin:** Chemical resistant protective gloves and clothing are recommended. The choice of protective gloves or clothing must be based on chemical resistance and other user requirements.

### Section 9 – Physical and Chemical Properties

**Appearance and Odour:** White / off white powder, odourless.

### Section 10 – Stability and Reactivity

**Stability:** Stable.  
**Incompatibilities:** Protect from moisture, strong acids, hydrofluoric acid (HF).  
**Hazardous Decomposition or By-products:** NA  
**Hazardous Polymerisation:** Will not occur.

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### Section 11 – Toxicological Information

**Route(s) of Entry:** Inhalation and Ingestion. May be harmful if inhaled or swallowed.  
**Acute/Chronic Effects:** May cause skin irritation. Causes eye irritation. Harmful if inhaled. Material is irritating to mucous membrane and upper respiratory tract. May be harmful if swallowed.  
**Medical Conditions Generally Aggravated by Exposure:** Preclude from exposure to dust those persons with pre-existing upper respiratory and lung disease such as, but not limited to, bronchitis, emphysema and asthma.

### Section 12 - Ecological Information

**Persistence/Degradability:** Based on chemical experience, will degrade over very long periods of time.  
**Biodegradability:** Will not biodegrade.  
**Bio-accumulation:** NA

### Section 13 – Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Bury in a landfill site approved for the disposal of chemical and hazardous waste. Observe all federal, state and local environmental regulations.

### Section 14 – Transport Information

**DOT and IATA-DGR regulations:** Non-regulated material.

### Section 15 – Regulatory Information

**Caution:** Substance not fully tested.  
**Exposure Limits:** There are established exposure limits for this product however, if dust is generated by spillage/grinding or other means, the following would apply:-  
Long-term exposure limit (8-hour TWA reference period) : 6mg.m<sup>-3</sup>  
**Harmful:** R20 : Harmful by inhalation, R36/37 : Irritating to eyes and respiratory system, S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, S36 : Wear suitable protective clothing, S22 : Do not breathe dust.

### Section 16 – Other Information

Unless otherwise noted, the above information pertains only for the base material and similar types of components in the sample. When no toxicity data is provided, it is prudent to handle this chemical as hazardous. Furthermore, since individual chemical hypersensitivity cannot be predicted, every chemical should be handled with due respect.

This material safety data sheet is offered without charge to the clients of Biotage. Information contained in this sheet is the most current available to Biotage at the time of preparation and is issued as a matter of information only, no warranty as to its accuracy or completeness is expressed or implied.

#### Key to Abbreviations

**CAS:** Chemical Abstract Service. **DOT:** Department of Transportation 49 Code of Federal Regulations. **IATA-DGR:** International Air Transport Association – Dangerous Goods Regulation. **NA:** Not Applicable. **NIOSH:** National Institute for Occupational Safety and Health. **TWA:** Time Weighted Average. **N/E:** Not established, means a value has not been set or there is no information available.

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#### Europe

Service & Support  
Tel: +46 18 56 59 11  
E-mail: [1-PointSupport@eu.biotage.com](mailto:1-PointSupport@eu.biotage.com)

#### North America

Service & Support  
Tel: +1 800 446 4752  
Press (3) at the auto attendant  
E-mail: [1-PointSupport@biotage.com](mailto:1-PointSupport@biotage.com)

#### Japan

Service & Support  
Tel: +81 422 28 1233  
E-mail: [1-PointSupport@biotage.co.jp](mailto:1-PointSupport@biotage.co.jp)

#### Corporate Headquarters

Biotage AB  
Kungsgatan 76  
SE-753 18 Uppsala  
Sweden  
Tel: +46 18 56 5900  
Fax: +46 18 59 1922

Distributors

Please visit our Web site at [www.biotage.com](http://www.biotage.com) for contact details