

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 ENV+
Reference Code: 915
Manufacturers Name: Biotage GB Limited,
Dyffryn Industrial Estate, Hengoed, CF82 7RJ, UK

Section 2 – Composition/Information on Ingredients

CAS Number: None.
Chemical Synonyms: **ENV+** is also known as *cross-linked polystyrene resin*.

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/MSHA 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: Tan powder, slight amine odour.

Section 10 – Stability and Reactivity

Stability: Stable.
Incompatibilities: Avoid contact with nitric acid or other strong oxidising agents.
Hazardous Decomposition or By-products: Monomer may be formed if burned and other toxic fumes may be emitted.
Hazardous Polymerisation: Will not occur.

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Section 11 – Toxicological Information

Acute Oral LD₅₀ (rat): >5000mg/Kg.
Eye Irritation (rabbit): Irritant by mechanical action.
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) : 6mgm⁻³
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.

www.biotage.com

Europe

Service & Support
Tel: +46 18 56 59 11
E-mail: 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

Japan

Service & Support
Tel: +81 422 28 1233
E-mail: 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 for contact details