

SAFETY DATA SHEET

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Version: BPM Q0020 – 1.1



Section 1 – Product and Company Identification

1.1 Product Name: 10g QuEChERS EN 15mL Extraction Tube
1.2 Product Code: Q0020 – 15V
1.3 Recommended Use: Laboratory chemical
Uses advised against: Not for therapeutic or diagnostic use
1.4 Company Name: Biotage GB Limited,
Dyffryn Business Park,
Hengoed, CF82 7TS
UK

1.5 Contact details:

Europe

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Japan

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China

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e-mail: cn-1-pointsupport@biotage.com

Section 2 – Hazards Identification

2.1 Classification of the product

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

2.2 Label elements

The product does not need to be labelled in accordance with EC directives

2.3 Other hazards

None

Section 3 – Composition/Information on Ingredients

Name:	QuEChERS EN 15mL Extraction Tube					
Synonyms:						
Name	Synonym	CAS – No.	EC – No.	Index –	Classification	Concentration
Magnesium sulfate		7487 – 88 – 9	231 – 298 – 2	-	-	62 %
Sodium citrate tribasic dihydrate	Citric acid Trisodium salt dihydrate; Trisodium citrate dihydrate	6132 – 04 – 3	200 – 675 – 3	-	-	15 %
Sodium hydrogencitrate sesquihydrate	Citric acid disodium salt; Disodium hydrogen citrate sesquihydrate; Sodium citrate dibasic sesquihydrate	6132 – 05 – 4	205 – 623 – 3	-	-	8 %
Sodium chloride	Table salt	7647 – 14 – 5	231 – 598 – 3	-	-	15 %

Section 4 – First Aid Measures

4.1 Inhalation: If inhaled, move affected person to fresh air. If breathing is difficult give oxygen. If breathing has stopped give artificial respiration

4.2 Skin Contact: Wash with soap and plenty of water

4.3 Eye Contact: Wash thoroughly with plenty of water for at least 15 minutes, separating the eyelids with the fingers. If eye irritation persists, seek medical attention

4.4 Ingestion: Wash out mouth with copious amounts of water if person is conscious. Never give anything by mouth to an unconscious person

4.5 Most important symptoms and effects Central nervous system depression; diarrhoea; vomiting; dehydration and congestion may occur in internal organs; hypertonic salt solutions can produce inflammatory reactions in the gastrointestinal tract

Section 5 – Fire-Fighting Measures

5.1 Suitable Extinguishing Media

Use dry chemical, CO₂, water spray or alcohol foam extinguishers

5.2 Unusual Fire Hazards and Explosion Hazards

May release sulphur oxides, magnesium oxide, carbon oxides, sodium oxides, and hydrogen chloride gas in a fire

5.3 Special protective equipment for Fire Fighters

Wear self contained breathing apparatus for fire fighting if necessary

Section 6 – Accidental Release Measures

6.1 Personal precautions

Ventilate the area thoroughly. Use protective equipment as described in Section 8. Avoid raising dust. Avoid breathing dust, vapours, mist or gas

6.2 Environmental Precautions

Do not let product enter drains

6.3 Methods and materials for containment and cleaning up

Pick up without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin and eyes. Avoid breathing dust

7.2 Conditions for safe storage

Keep container tightly closed in a dry and well – ventilated place. Store in a cool place, out of direct sunlight and away from incompatible substances

Section 8 – Exposure Controls / Personal Protection

Contains no substances with occupational exposure limit values

8.1 Personal protective equipment

Respiratory protection

Respiratory protection is not required. For nuisance exposures use type N95 (US) or type P1 (EU EN 143) dust masks. For higher level protection use type OV / AG / P99 (US) or type ABEK – P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Hand protection

Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89 / 686 / EEC and the standard EN 374 derived from it. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the outer surface of the glove) to avoid skin contact with product. Dispose of gloves after use in accordance with applicable regulations and good laboratory practice. Wash and dry hands

Eye protection

Safety glasses with side – shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

Skin and body protection

Choose body protection in relation to its type, the concentration and the amount of dangerous substances, and to the specific workplace

Hygiene measures

Handle in accordance with good laboratory hygiene and safe practice. Wash hands before breaks and at the end of the workday

Section 9 – Physical and Chemical Properties

9.1 Appearance

Form	Powder
Colour	White

9.2 Safety data

pH	No data available
Melting point	No data available
Boiling point	No data available
Flash point	No data available
Ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Water solubility	No data available

Section 10 – Stability and Reactivity

10.1 Chemical stability

Stable under recommended storage conditions

10.2 Conditions to avoid

Exposure to moisture

10.3 Materials to avoid

Strong oxidising agents

10.4 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – sulfur oxides, magnesium oxide, carbon oxides, sodium oxides, hydrogen chloride gas

Section 11 – Toxicological Information

To the best of our knowledge, the toxicological properties of this material have not been fully investigated

(a) Acute toxicity

LD50 Intraperitoneal – mouse – 1 029 mg / Kg (magnesium sulphate)

No data available (sodium citrate tribasic dihydrate)

No data available (sodium hydrogencitrate sesquihydrate)

LD50 Inhalation – rat – 1 hr > 42 000 mg / m³ (sodium chloride)

LD50 Dermal – rabbit – > 10 000 mg / Kg (sodium chloride)

(b) Skin corrosion / irritation

No data available

(c) Serious eye damage / eye irritation

No data available

(d) Respiratory or skin sensitisation

No data available

(e) Germ cell mutagenicity

No data available

(f) Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC

(g) Reproductive toxicity

No data available

(h) Specific target organ toxicity – single exposure

No data available

(i) Specific target organ toxicity – repeated exposure

No data available

(j) Aspiration hazard

No data available

(k) Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation
Ingestion	May be harmful if swallowed
Skin	May cause skin irritation
Eyes	May cause eye irritation

Section 12 – Ecological Information**12.1 Toxicity**

Toxicity to fish	LC50 – Pimephales promelas (fathead minnow)	2 820 mg / L – 96 hr (magnesium sulphate) No data available (sodium citrate tribasic dehydrate) No data available (sodium hydrogencitrate sesquihydrate)
Toxicity to Daphnia and other aquatic invertebrates	EC50 – Daphnia magna (Water flea)	No data available (sodium chloride) 343.56 mg / L – 48 hr (magnesium sulphate) No data available (sodium citrate tribasic dehydrate) No data available (sodium hydrogencitrate sesquihydrate)
	NOEC – Daphnia	1 500 mg / L – 7 d (sodium chloride)
	LC50 – Daphnia magna (Water flea)	1 661 mg / L – 48 hr (sodium chloride)

12.2 Persistence and degradability

No data available

12.3 Bio – accumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

Section 13 – Disposal Considerations**13.1 Product**

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

13.2 Contaminated packaging

Dispose of as unused product

Section 14 – Transport Information

Not classified as dangerous goods by ADR / RID, IMDG, or IATA

Section 15 – Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907 / 2006

Country Specific

US (TSCA) Manufactured for research and development only. Note: Chemical substances that are manufactured or imported in small quantities solely for use in research and development are not subject to the notification requirements of the Toxic Substance Control Act (TSCA), 15 USC 2604 (h) et seq. Reference – 40 CFR 720.36

Section 16 – Other Information

This substance must only be handled by, or under close supervision of those qualified in the handling and use of potentially hazardous substances. This Safety Data Sheet is offered without charge to the clients of Biotage and it is issued only as a guide for safe handling, use, storage, disposal and release. Information contained on this sheet is the most current available to Biotage at the time of preparation but does not purport to be all inclusive or a guarantee as to the properties of the material supplied. Biotage makes no warranties or representations as to the accuracy and completeness of the information contained herein. Biotage shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

Key to Abbreviations

CAS: Chemical Abstract Service. **IARC:** International Agency for Research on Cancer. **NIOSH:** National Institute for Occupational Safety & Health. **ADR / RID:** Agreement on Dangerous Goods by Road / Regulations Concerning the transport of Dangerous Goods by Rail. **IMDG:** International Maritime Dangerous Goods Code. **IATA:** International Air Transport Association.