

## Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)  
Classification according to Regulation (EC) No. 1272/2008 [CLP]

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### Product identifier

<b>Product code</b>	S1-10-EN-KIT
<b>Product name</b>	EN EXTRACTION KIT, 10G SAMPLE SIZE.4G MGSO <sub>4</sub> , 1GNACL, 1G NA-CITRATE, 0.5G NA-CITRATESESQUIHYDRATE IN POUCHES AND 50ML TUBES 50/PK
<b>Unique Formula Identifier (UFI)</b>	Not Applicable
<b>Chemical Name</b>	Not Applicable
<b>REACH registration number</b>	No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

#### Relevant identified uses of the substance or mixture and uses advised against

<b>Relevant identified uses</b>	For research use only
<b>Use Description Code</b>	SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen), PROC15 - Use as laboratory reagent, PC21 - Laboratory chemicals, SU24 - Scientific research and development
<b>Uses advised against</b>	Not for consumer use.

#### Details of the supplier of the safety data sheet

**Manufacturer / Supplier**

**Revision number** 1  
**Product code** S1-10-EN-KIT

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### Emergency telephone number

**24 hour Emergency Response for Hazardous Materials** Within the USA + Canada: 1-800-424-9300 and  
**[or Dangerous Goods] Incident. Spill, Leak, Fire,** 1-703-527-3887  
**Exposure, or Accident. Call CHEMTREC** Outside the USA + Canada: 1-703-741-5970

### Country Specific Emergency Number (if available):

CHEMTREC Ireland (Dublin) +(353)-19014670 (Greeting Language: English and Irish)  
CHEMTREC UK (London) +(44)-870-8200418 (Greeting Language: English)

## SECTION 2: Hazards identification

### Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

##### Physical hazards

Not Hazardous

##### Health hazards

Not Hazardous

##### Environmental hazards

Not Hazardous

### Additional information

Not Applicable

### Label elements

#### Labelling according to Regulation (EC) No 1272/2008 [CLP]

##### Hazard pictograms

No Pictogram

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**Signal Word**

None

**Hazard Statements**

Not Applicable

**EU Specific Hazard Statements**

Not Applicable

**Precautionary Statements****Prevention**

Not Applicable

**Response**

Not Applicable

**Storage**

Not Applicable

**Disposal**

Not Applicable

**Other hazards**

Not Applicable.

## SECTION 3: Composition/information on ingredients

**Mixtures**

Chemical Name	CAS No	EINECS-No.	Weight-%	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Magnesium sulfate	7487-88-9	231-298-2	62	01-2119486789-11-X XXX	Not classified
Sodium chloride	7647-14-5	231-598-3	15	01-2119485491-33-X XXX	Not classified
Disodium citrate sesquihydrate	6132-05-4	-	15	-	Not classified
Trisodium citrate dihydrate	6132-04-3	-	8	-	Not classified

Chemical Name	Specific concentration limit (SCL)	M-Factor	Acute Toxicity Estimate
Magnesium sulfate	-	-	-
Sodium chloride	-	-	-
Disodium citrate sesquihydrate	-	-	-
Trisodium citrate dihydrate	-	-	-

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## SECTION 4: First aid measures

### Description of first aid measures

<b>Skin contact</b>	Rinse skin with water. Immediate medical attention is not required.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Ingestion</b>	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
<b>Inhalation</b>	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
<b>Notes to Physician</b>	Treat symptomatically.

### Most important symptoms and effects, both acute and delayed

Not Applicable

### Indication of any immediate medical attention and special treatment needed

None.

## SECTION 5: Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Unsuitable extinguishing media</b>	No information available.

### Special hazards arising from the substance or mixture

Not known

#### Hazardous Combustion Products

No data available.

### Advice for firefighters

Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation  
Always wear recommended Personal Protective Equipment  
Use personal protection equipment  
See section 8 for more information

### Environmental precautions

No special environmental precautions required.

### Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

### Reference to other sections

See section 8 for more information.

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## SECTION 7: Handling and storage

### **Precautions for safe handling**

Use personal protective equipment as required. No special handling advices are necessary.

### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

### **Conditions for safe storage, including any incompatibilities**

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep container tightly closed.

### **Specific end use(s)**

For research use only.

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## SECTION 8: Exposure controls/personal protection

**Control parameters**

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU Skin Notation
Magnesium sulfate 7487-88-9	None	None	None
Sodium chloride 7647-14-5	None	None	None
Disodium citrate sesquihydrate 6132-05-4	None	None	None
Trisodium citrate dihydrate 6132-04-3	None	None	None

Chemical Name	Austria	Belgium (TWA)	Czech Republic
Magnesium sulfate 7487-88-9	None	None	None
Sodium chloride 7647-14-5	None	None	None
Disodium citrate sesquihydrate 6132-05-4	None	None	None
Trisodium citrate dihydrate 6132-04-3	None	None	None

Chemical Name	Denmark (TWA)	Finland OEL (TWA)	France OEL (VME)
Magnesium sulfate 7487-88-9	None	None	None
Sodium chloride 7647-14-5	None	None	None
Disodium citrate sesquihydrate 6132-05-4	None	None	None
Trisodium citrate dihydrate 6132-04-3	None	None	None

Chemical Name	Germany OEL (TWA)	Ireland (TWA)	Italy OEL (TWA)
Magnesium sulfate 7487-88-9	None	None	None
Sodium chloride 7647-14-5	None	None	None
Disodium citrate sesquihydrate 6132-05-4	None	None	None
Trisodium citrate dihydrate 6132-04-3	None	None	None

Chemical Name	Lithuania OEL (TWA)	Netherlands OEL (MAC)	Norway
Magnesium sulfate 7487-88-9	None	None	None
Sodium chloride 7647-14-5	5 mg/m <sup>3</sup>	None	None
Disodium citrate sesquihydrate 6132-05-4	None	None	None
Trisodium citrate dihydrate 6132-04-3	None	None	None

Chemical Name	Poland	Portugal	Spain OEL (TWA)
Magnesium sulfate 7487-88-9	None	None	None
Sodium chloride 7647-14-5	None	None	None
Disodium citrate sesquihydrate	None	None	None

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6132-05-4			
Trisodium citrate dihydrate 6132-04-3	None	None	None

Chemical Name	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	United Kingdom
Magnesium sulfate 7487-88-9	None	None	None
Sodium chloride 7647-14-5	None	None	None
Disodium citrate sesquihydrate 6132-05-4	None	None	None
Trisodium citrate dihydrate 6132-04-3	None	None	None

### Derived No Effect Level (DNEL)

See table for values

Component	Acute effects local (Dermal)	Acute effects systemic (Dermal)	Chronic effects local (Dermal)	Chronic effects systemic (Dermal)
Magnesium sulfate 7487-88-9 ( 62 )	None	None	None	DNEL = 21.3mg/kg bw/day
Sodium chloride 7647-14-5 ( 15 )	None	DNEL = 295.52mg/kg bw/day	None	DNEL = 295.52mg/kg bw/day
Disodium citrate sesquihydrate 6132-05-4 ( 15 )	None	None	None	None
Trisodium citrate dihydrate 6132-04-3 ( 8 )	None	None	None	None

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Magnesium sulfate 7487-88-9 ( 62 )	None	None	None	DNEL = 37.6mg/m <sup>3</sup>
Sodium chloride 7647-14-5 ( 15 )	None	DNEL = 2068.62mg/m <sup>3</sup>	None	DNEL = 2068.62mg/m <sup>3</sup>
Disodium citrate sesquihydrate 6132-05-4 ( 15 )	None	None	None	None
Trisodium citrate dihydrate 6132-04-3 ( 8 )	None	None	None	None

### Predicted No Effect Concentration (PNEC)

See table for values

Chemical Name	Fresh water sediment	Fresh water	Water Intermittent	Microorganisms in sewage treatment	Soil (Agriculture)
Magnesium sulfate 7487-88-9	None	None	PNEC = 6.8mg/L	PNEC = 10mg/L	None
Sodium chloride 7647-14-5	None	None	None	PNEC = 500mg/L	PNEC = 4.86mg/kg soil dw
Disodium citrate sesquihydrate 6132-05-4	None	None	None	None	None
Trisodium citrate dihydrate 6132-04-3	None	None	None	None	None

Component	Marine water	Marine water sediment	Marine water Intermittent	Food chain	Air
Magnesium sulfate 7487-88-9 ( 62 )	PNEC = 0.068mg/L	None	None	None	None
Sodium chloride 7647-14-5 ( 15 )	None	None	None	None	None

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Disodium citrate sesquihydrate 6132-05-4 ( 15 )	None	None	None	None	None
Trisodium citrate dihydrate 6132-04-3 ( 8 )	None	None	None	None	None

**Engineering Measures**      Ensure adequate ventilation, especially in confined areas.

**Exposure controls**

**Personal protection equipment**

**Respiratory protection**      In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

**Hand protection**              Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

**Eye protection**                Tight sealing safety goggles.

**Skin and Body Protection**    Wear suitable protective clothing.

**Hygiene Measures**            Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls**

Avoid discharge into drains and waterways whenever possible.



## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	powder	
Colour	No data	
Odour	No data	
Molecular Weight	No data	
Melting point / melting range	°C No data	°F No data
Boiling point / boiling range	°C No data	°F No data
Flammability (solid, gas)	No data	
Lower explosion limit	No data	
Upper explosion limit	No data	
Flash point	°C No data	°F No data
Autoignition Temperature	°C No data	°F No data
Decomposition temperature	°C No data	°F No data
Evaporation rate	No data	
Viscosity	No data	
Solubility	No data	
Partition coefficient: n-octanol/water	No data	
Vapour Pressure	No data	
Specific gravity	No data	
Relative density	No data	
Vapour density	No data	
Explosive properties	No data	
Oxidising properties	No data	
Particle characteristics	No data	

### Other information

#### Information with regards to physical hazard classes

No information available

#### Other safety characteristics

No information available

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## SECTION 10: Stability and reactivity

<b>Reactivity</b>	None known.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported.
<b>Conditions to avoid</b>	No information available.
<b>Incompatible materials</b>	No dangerous reaction known under conditions of normal use.
<b>Hazardous decomposition products</b>	No data available.

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## SECTION 11: Toxicological information

### Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Product Information** No acute toxicity information is available for this product

#### Acute Toxicity

To the best of our knowledge, the chemical, physical, biological, and toxicological properties of this product have not been thoroughly investigated.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Magnesium sulfate	No data available	No data available	No data available
Sodium chloride	= 3 g/kg (Rat)	> 10000 mg/kg(Rabbit)	>42mg/L(Rat)
Disodium citrate sesquihydrate	No data available	No data available	No data available
Trisodium citrate dihydrate	No data available	No data available	No data available

#### Principal Routes of Exposure

**Skin corrosion/irritation** No information available

**Serious eye damage/irritation** No information available

**Respiratory or skin sensitisation** No information available

**Specific target organ toxicity (STOT) – single exposure** No information available

**Specific target organ toxicity (STOT) – repeated exposure** No information available

**Carcinogenicity** No information available

**Germ cell mutagenicity** No information available

**Reproductive Toxicity** No information available

**Aspiration Hazard** No information available

#### Information on other hazards

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

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## SECTION 12: Ecological information

### Toxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Magnesium sulfate	Desmodesmus subspicatus EC50=2700 mg/L (72 h)	Daphnia magna EC50 266.4 - 417.3 mg/L (48 h)	No data available	No data available	No data available
Sodium chloride	No data available	Daphnia magna EC50 340.7 - 469.2 mg/L (48 h) Daphnia magna EC50=1000 mg/L (48 h)	No data available	No data available	No data available
Disodium citrate sesquihydrate	No data available	No data available	No data available	No data available	No data available
Trisodium citrate dihydrate	No data available	No data available	No data available	No data available	No data available

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

**Mobility in soil** No information available.

**Results of PBT and vPvB assessment** No information available.

### Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors

### Other adverse effects

**Persistent Organic Pollutant** This product does not contain any known or suspected substance

**Ozone depletion potential (ODP)** This product does not contain any known or suspected substance

## SECTION 13: Disposal considerations

### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## SECTION 14: Transport information

### IATA / ADR / DOT-US / IMDG

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Not regulated in the meaning of transport regulations

<b>UN number or ID number</b>	Not Applicable
<b>UN proper shipping name</b>	Not Applicable
<b>Transport hazard class(es)</b>	Not Applicable
<b>Packing group</b>	Not Applicable

**Environmental hazards**

Not Applicable

**Special precautions for user**

Not Applicable

**Maritime transport in bulk according to IMO instruments**

Not Applicable.

SECTION 15: Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

None.

**Substances of Very High Concern**

None

**Substance subject to authorisation per REACH Annex XIV**

None

**Restricted substances under EC 1907/2006, Annex XVII**

**Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)**

None

**Regulation (EU) No 2019/1021 (Stockholm Convention – persistent organic pollutants)**

None

**EU - Substances Depleting the Ozone layer (1005/2009)**

None

**German Water hazard classes (Wassergefährdungsklassen)**

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Chemical Name	Weight-%	Water hazard class (WGK)
Magnesium sulfate	62	hazard class 1 - slightly hazardous to water
Sodium chloride	15	hazard class 1 - slightly hazardous to water
Trisodium citrate dihydrate	8	hazard class 1 - slightly hazardous to water

### Other International Inventories

Chemical Name	EINECS (European Union)	ELINCS (European List of Notified Chemical Substances)	ENCS (Japan)	PICCS (Philippines)
Magnesium sulfate	Listed	-	Listed	Listed
Sodium chloride	Listed	-	Listed	Listed
Disodium citrate sesquihydrate	-	-	-	-
Trisodium citrate dihydrate	-	-	Listed	Listed

Chemical Name	AICS (Australia)	South Korea (KECL)	Canada (DSL)	NDSL
Magnesium sulfate	Listed	Listed	Listed	-
Sodium chloride	Listed	Listed	Listed	-
Disodium citrate sesquihydrate	-	Listed	-	-
Trisodium citrate dihydrate	Listed	Listed	-	-

### Chemical safety assessment

No Chemical safety assessment has been carried out.

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## SECTION 16: Other information

**Reason for revision** Update according to Commission Regulation EU No. 2020/878  
**Revision number** 1  
**Revision date** 10-Jan-2024

### References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC)

#### 1272/2008 [CLP]:

Not classified

### Abbreviations and acronyms

**TWA** - Time-Weighted Average

**OELs** - Occupational Exposure Limits

**STEL** - Short Term Exposure Limit

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**CEPA** - Canadian Environmental Protection Act

**EPA** - Environmental Protection Agency

**OSHA** - Occupational Safety and Health Administration of the US Department of Labour

**IATA** - International Air Transport Association

**DOT** - Department of Transportation

**IMDG** - International Maritime Dangerous Goods

**ACGIH** - American Conference of Governmental Industrial Hygienists

**NIOSH** - National Institute for Occupational Safety and Health

**AIHA** - American Industrial Hygiene Association

**HMIS** - Department of Defense Hazardous Materials Information System

**NTP** - National Toxicology Program

**IARC** - International Agency for Research on Cancer

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR

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PURPOSE"

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[www.thermofisher.com](http://www.thermofisher.com)