

according to Regulation (EC) No. 1907/2006 Version 5.0 Revision Date 14.09.2012

#### 1. **IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1	Product identifiers Product name	:	Magnesium sulphate heptahydrate
	Product Number	:	52-7503
	Brand	:	Rapid
	CAS-No.	:	10034-99-8
1.2	Relevant identified use	s of th	e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Manufacture of substances
1 2	Dotails of the supplier	of the d	aafatu data ahaat

#### Details of the supplier of the safety data sheet 1.3

Company	:	Rapid Electronics, Severalls Lane, Colchester, Essex, CO4 5JS, United Kingdom
Telephone	:	+44 (0) 1206 751166
Fax	:	+44 (0) 1206 751188
E-mail address	:	sales@rapidelec.co.uk
Emergency telephone number		

# 1.4

+44 (0) 1206 751166 **Emergency Phone #** 2

#### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance 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 or respective national laws.

#### 2.3 Other hazards - none

#### **COMPOSITION/INFORMATION ON INGREDIENTS** 3.

3.1	<b>Substances</b> Synonyms	:	Epsom salts
	Formula Molecular Weight		MgO <sub>4</sub> S • 7H <sub>2</sub> O 246.47 g/mol

#### **FIRST AID MEASURES** 4.

#### **Description of first aid measures** 4.1

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

# In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

**4.3** Indication of any immediate medical attention and special treatment needed no data available

# 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

# Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Sulphur oxides, Magnesium oxide

### **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information no data available

# 6. ACCIDENTAL RELEASE MEASURES

6.1 **Personal precautions, protective equipment and emergency procedures** Avoid dust formation. Avoid breathing vapors, mist or gas.

#### 6.2 Environmental precautions Do not let product enter drains.

- 6.3 Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

# 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed.

- **7.2** Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
- 7.3 Specific end uses no data available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters
  - **Components with workplace control parameters** Contains no substances with occupational exposure limit values.

# 8.2 Exposure controls

# Appropriate engineering controls

General industrial hygiene practice.

# Personal protective equipment

### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Immersion protection Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 480 min Material tested:Dermatril® (Aldrich Z677272, Size M)

Splash protection Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 30 min Material tested:Dermatril® (Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

## **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Fine crystals and fragments Colour: white
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	5.0 - 8.0 at 50 g/l
e)	Melting point/freezing point	no data available
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evaporation rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	< 0.133 hPa at 20 °C
I)	Vapour density	no data available

	m) Relat	ive density	1.67 g/cm3		
	n) Wate	r solubility	246.48 g/l at 20 °C - completely soluble		
	<ul> <li>Partition coefficient: n- octanol/water</li> </ul>		no data available		
	p) Autoignition temperature		no data available		
		mposition erature	no data available		
	r)	Viscosity	no data available		
	s) Ex	plosive properties	no data available		
	t)	Oxidizing propert	ies no data available		
9.2	Other saf	ety information			
	Bulk	density	0.009 kg/m3		
10.	STABILIT	Y AND REACTIVI	ГҮ		
10.1	Reactivit no data av				
10.2	Chemical stability no data available				
10.3	Possibility of hazardous reactions no data available				
10.4	Conditions to avoid no data available				
10.5	Incompatible materials Strong oxidizing agents				
10.6		as decomposition composition product	<b>products</b> ts - no data available		
11.	TOXICOLOGICAL INFORMATION				
11.1	Informati	on on toxicologica	al effects		
	Acute toxicity no data available				
	Skin corrosion/irritation no data available				
	Serious eye damage/eye irritation no data available				
	Respiratory or skin sensitization no data available				
	Germ cel no data av	<b>l mutagenicity</b> vailable			
	Carcinogenicity				
	IARC:		f this product present at levels greater than or equal to 0.1% is idential or confirmed human carcinogen by IARC.	ified as	
	<b>Reprodu</b> no data av	<b>ctive toxicity</b> vailable			
			ty - single exposure		
	no data av	valiable			
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	Specific target organ toxicity - repeated exposure no data available			
	Aspiration hazard no data available			
	Potential health effects			
	Ingestion Skin	May be harmful if inhaled. May cause re May be harmful if swallowed. May be harmful if absorbed through skir May cause eye irritation.		
	Additional Information RTECS: OM4508000			
12.	ECOLOGICALINFORMATION			
12.1	Toxicity no data available			
12.2	Persistence and degradability no data available			
12.3	Bioaccumulative potential no data available			
12.4	Mobility in soil no data available			
12.5	Results of PBT and vPvB assessment no data available			
12.6	Other adverse effects no data available			
13.	DISPOSAL CONSIDERATIONS			
13.1	Waste treatment methods			
	<b>Product</b> Offer surplus and non-recyclable solutions to a licensed disposal company.			
	<b>Contaminated packaging</b> Dispose of as unused product.			
14.	TRANSPORTINFORMATION			
14.1	<b>UN number</b> ADR/RID: -	IMDG: -	IATA: -	
14.2	UN proper shipping nameADR/RID:Not dangerous godIMDG:Not dangerous godIATA:Not dangerous god	ods		
14.3	Transport hazard class(es) ADR/RID: -	IMDG: -	IATA: -	
14.4	Packaging group ADR/RID: -	IMDG: -	IATA: -	
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no	
14.6	Special precautions for user no data available			

# 15. REGULATORY INFORMATION

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

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture no data available
- **15.2 Chemical Safety Assessment** no data available

# 16. OTHER INFORMATION

## **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.