SAFETY INFORMATION SHEET

Date of issue: February 2004
Revision date: October 2017

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

1.1 Product identifier SULPHATE OF POTASH

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

Use of the Substance/Mixture: Fertilizer

1.3 Details of the supplier of the safety data sheet

Vitax Limited
Owen Street
Coalville
LE67 3DE Tel: 01530 510060 Email: info@vitax.co.uk

1.4 Emergency Contact: Tel: +44 (0)1530 510060 (Office Hours)

2. HAZARDS IDENTIFICATION

2.1 Classification:

2.2 Label Elements:

2.1 Classification of the substance or mixture

(Regulation (EC) No 1272/2008) Eye Dam. 1 H318: Causes serious eye damage.

2.2 Label elements

(Regulation (EC) No 1272/2008) Contains potassium hydrogensulphate (EC 231-594-1, CAS 7646-93-7)

Signal word: Danger

Hazard statements: H318 Causes serious eye damage.

Precautionary Statements P101 Read label before use
P102 Keep out of reach of children
P103 If medical advice is needed, have product label or container at hand
P280 Wear eye/face protection.
P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.

2.3 Other hazards No additional information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	CAS-No	EINECS-No. / ELINCS No	Concentration [%]	Classification
Potassium Sulphate (K_2SO_4)	7778-80-5	231-915-5	> 85	Not classified
Potassium hydrogensulphate ($KHSO_4$)	7646-93-7	231-594-1	10 -15	Sk Corr 1B, H314 STOT SE 3, H335

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled: Remove victim to fresh air. If persistent breathing troubles, immediately seek medical attention.

In case of skin contact: Rinse immediately with plenty of water. Remove contaminated clothing and shoes. Seek medical attention if ill effect or irritation develops.

In case of eye contact: In case of eye contact, immediately rinse with clean water for 10-15 minutes.

If swallowed: Do not induce vomiting. If feeling unwell, immediately seek medical attention. Immediately rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No additional information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No additional information available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: All extinguishing media can be used.

Unsuitable extinguishing media: none

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting:	On exposure to high temperature, may decompose, releasing toxic gases. Sulphur oxides.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear a respirator rubber boots, rubber gloves and thick clothing like fire.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:	see section(s): 8.2.

6.2 Environmental precautions

Environmental precautions:	Contain leaking substance, pump over in suitable containers. For further information refer to section 13.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up:	Avoid dust production. Wash down leftovers with plenty of water.
6.4 Reference to other sections	No additional information available.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Safe handling:	No additional information available.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety procedures.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas:	Store in dry, well-ventilated area..
Incompatible products:	No data available.
Special rules on packaging:	Do not' use packaging made out of aluminium, zinc or tin.
Packaging materials:	glass. wood.
7.3 Specific end uses	Fertiliser

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Potassium sulfate (Soluble) (7778-80-5)

United Kingdom WEL TWA (mg/m³)	Respirable: 5 mg/m³. Inhalable: 10 mg/m³

8.2 Exposure controls

Appropriate engineering controls:	Good ventilation of the workplace required. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection:	Wear chemical protective gloves.
Eye protection:	Wear safety glasses with side shields according EN 166.
Skin and body protection:	Protective clothing (with elasticated cuffs and closed neck).
Respiratory protection:	Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material (Type FFP2 in accordance with EN 140 or 149).
Environmental exposure controls:	Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Solid
Appearance:	Crystalline powder. Powder. Pellet.
Molecular mass:	174,26 g/mol
Colour:	Colourless. white.
Odour:	odourless.
Odour threshold:	No data available
pH:	No data available
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	Not applicable
Self ignition temperature:	Not applicable
Decomposition temperature:	No data available
Flammability (solid, gas):	Not flammable
Vapour pressure:	No data available

Relative vapour density at 20°C: No data available

Relative density:	> 2.3
Solubility:	No data available
Log Pow:	Not applicable
Log Kow:	Not applicable
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	Not explosive.
Oxidising properties:	Not flammable.
Explosive limits:	No data available.
9.2 Other information	No additional information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity	On exposure to high temperature, may decompose, releasing toxic gases. Sulphur oxides.
10.2 Chemical stability	Stable under normal conditions (Handling and storage).
10.3 Possibility of hazardous reactions	Reacts with: Metals
10.4 Conditions to avoid	No additional information available.
10.5 Incompatible materials	No additional information available.
10.6 Hazardous decomposition products	No additional information available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Not classified
Potassium sulfate (Soluble)(7778-80-5)	LD50 oral rat > 2000 mg/kg
Potassium sulfate (7778-80-5)	LD50 oral rat 6600 mg/kg
Potassium hydrogensulphate (7646-93-7)	LD50 oral rat 2340 mg/kg
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory or skin sensitisation:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard:	Not classified

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Potassium sulfate (7778-80-5)

LC50 fishes 1	653 - 796 mg/l (96 Hours - Lepomis macrochirus)
EC50 Daphnia 1	890 mg/l (48 Hours - Daphnia magna)
ErC50 (algae)	2900 mg/l (72 Hours - Scenedesmus Subspicatus)

Potassium hydrogensulphate (7646-93-7)

LC50 fishes 1	3500 mg/l Leuciscus idus

12.2 Persistence and degradability

Potassium sulfate (Soluble) (7778-80-5)

Persistence and degradability	Not applicable.

12.3 Bioaccumulative potential

Potassium sulfate (Soluble) (7778-80-5)

Log Pow	Not applicable
Log Kow	Not applicable
Bioaccumulative potential	No data available.

12.4 Mobility in soil

Potassium sulfate (Soluble) (7778-80-5)

Ecology - soil	Not applicable.
12.5 Results of PBT and vPvB assessment	No additional information available
12.6 Other adverse effects	No additional information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Regional legislation (waste):	Disposal must be done according to official regulations.
EURAL code:	06 03 14, solid salts and solutions other than those in 06 03 11 and 06 03 13

14. TRANSPORT INFORMATION

14.1 Land transport ADR	Not a dangerous substance as defined in the above regulations.
Tunnel restriction code:	Not relevant
14.2 Sea transport	
ADNR	Not classified as dangerous in the meaning of transport regulations.
IMDG	Not classified as dangerous in the meaning of transport regulations.
14.3 Air transport IATA-DGR	Not classified as dangerous in the meaning of transport regulations.
14.4 Special precautions for user	Not relevant

14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. REGULATORY INFORMATION

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

15.1.1. EU-Regulations	No REACH Annex XVII restrictions Contains no REACH candidate substance
15.1.2. National regulations	
Water hazard class (WGK):	1 - slightly hazardous to water
15.2 Chemical Safety Assessment	No additional information available.

16. OTHER INFORMATION

Reason for revision: Replaces version dated January 2016. Revised hazard classification- all sections updated.

Abbreviations and acronyms:

ADN: European Agreement concerning international carriage of Dangerous goods by Inland waterways
ADR: European Agreement concerning international carriage of Dangerous goods by Road
AF: Assessment factor
BCF: Bioconcentration factor
Bw: Body weight
CAS: Chemical Abstracts Service
CLP: Classification, labelling, packaging
CSR: Chemical Safety Report
DMEL: Derived maximum effect level
DNEL: Derivative No effect Level
EC: European Community
ELV: Emission limit values
EN: European Norm
EUH: European Hazard Statement
EWC: European Waste catalogue
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
LC50: Median lethal concentration
LD50 : Median lethal dose
NOAEL: No-observed-adverse-effect-level
NOEC: No observed effect concentration
NOEL: No observed effect level
OEL: Operator exposure level
PBT: Persistent, bioaccumulative, Toxic
PEC: Predicted effect level
PNEC: Predicted No effect Concentration
REACH: Registration, evaluation and autorisation of chemicals
RID: Regulations concerning the international carriage of dangerous goods by rail
STEL: Short Term Exposure Limit
TWA: Time weighted average
vPvB: Very persistent, very bioaccumulative.

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