

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

Solupotasse®

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

1.1. Product identifier

Product name	: Solupotasse®
Synonyms	: potassium sulfate, soluble grade
Registration number REACH	: 01-2119489441-34-0000
Product type REACH	: Substance/mono-constituent
CAS number	: 7778-80-5
EC number	: 231-915-5
Molecular mass	: 174.26 g/mol
Formula	: K2SO4

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

1.2.1 Relevant identified uses

Fertiliser: EC FERTILISER

1.2.2 Uses advised against

No uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Tessenderlo Group NV Troonstraat 130 B-1050 Brussel ☎ +32 13 61 22 11 ➡ +32 13 67 37 49

Manufacturer of the product

Tessenderlo Group NV (TCH) Bergstraat 32 B-3945 Ham C +32 13 61 12 11 C +32 13 61 12 32 sds.responsible@tessenderlo.com

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch): +32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Eye Dam.	category 1	H318: Causes serious eye damage.

2.2. Label elements

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Reason for revision: 1.3-5.1 Revision number: 0201

No and Andrews			
Signal word	Danger		
H-statements			
H318	Causes serious eye damage.		
P-statements			
P280	Wear eye protection/face protection.		
P310	Immediately call a POISON CENTER or doctor/physician.		
Created by: Brandweerinformat Technische Schoolstraat 43 A, B http://www.big.be	iecentrum voor gevaarlijke stoffen vzw (BIG) -2440 Geel	Publication date: 2008-03-21 Date of revision: 2017-10-23	

134-16446-

P305 + P351 + P338

38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients

3.1. Substances

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
potassium sulfate	7778-80-5 231-915-5	C>85%			Constituent
potassium hydrogensulphate	7646-93-7 231-594-1	C≤15%	Skin Corr. 1B; H314 STOT SE 3; H335	(1)	Impurity

(1) For H-statements in full: see heading 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Wash with water and soap. Take victim to a doctor if irritation persists.

After eye contact:

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist.

After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Victim is fully conscious: immediately induce vomiting. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:

AFTER INHALATION OF DUST: Coughing.

After skin contact:

Not irritating.

After eye contact:

Corrosion of the eye tissue. Inflammation/damage of the eye tissue.

After ingestion:

AFTER INGESTION OF HIGH QUANTITIES: Gastrointestinal complaints. Nausea. Diarrhoea. Irritation of the gastric/intestinal mucosa. Decreased renal function. Disturbances of heart rate.

4.2.2 Delayed symptoms

No effects known.

4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Adapt extinguishing media to the environment.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (sulphur oxides).

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Product number: 52123

5.3. Advice for firefighters

5.3.1 Instructions:

Dilute toxic gases with water spray.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent dust cloud formation, e.g. by wetting. No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.

6.3. Methods and material for containment and cleaning up

Stop dust cloud by humidifying. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Store in a dry area. Store at room temperature. Keep container in a well-ventilated place. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

Polyethylene.

7.2.4 Non suitable packaging material:

Aluminium, metal.

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Belgium

Particules non classifiées autrement (fraction alvéolaire)	Time-weighted average exposure limit 8 h	3 mg/m³
Particules non classifiées autrement (fraction inhalable)	Time-weighted average exposure limit 8 h	10 mg/m³
France		
Poussières réputées sans effet spécifique, fraction	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	5 mg/m³
Poussières réputées sans effet spécifique	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	10 mg/m³
Germany		
Allgemeiner Staubgrenzwert: Alveolengängige Fraktion	Time-weighted average exposure limit 8 h (TRGS 900)	1.25 mg/m ³

Reason for revision: 1.3-5.1

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UK		-
Inhalable dust	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	10 mg/m³
Respirable dust	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	4 mg/m³

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

Product r	name	Test	Number
Potassiun	n	OSHA	ID 121
Sulfites, 8	& Sulfates	NIOSH	6004

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

DNEL/DMEL - Workers

potassium sulfate

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects dermal	21.3 mg/kg bw/day	
	Long-term systemic effects inhalation	37.6 mg/m³	

DNEL/DMEL - General population

potassium sulfate

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects oral	12.8 mg/kg bw/day	
	Long-term systemic effects dermal	12.8 mg/kg bw/day	
	Long-term systemic effects inhalation	11.1 mg/m³	

PNEC

otassium sulfate		
Compartments	Value	Remark
Fresh water	0.68 mg/l	
Marine water	0.068 mg/l	
Aqua (intermittent releases)	6.8 mg/l	
STP	10 mg/l	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

Dust production: dust mask with filter type P1.

b) Hand protection:

Gloves.

- materials (good resistance)

Rubber.

c) Eye protection:

Safety glasses. In case of dust production: protective goggles.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Crystalline solid
	Powder
Odour	Odourless

Reason for revision: 1.3-5.1

Odour threshold	Not applicable
Colour	Colourless to white
Particle size	135 μm
Explosion limits	Not applicable
Flammability	Non-flammable
Log Kow	No data available
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	1067 °C
Boiling point	1689 °C
Flash point	Not applicable
Evaporation rate	No data available
Relative vapour density	Not applicable
Vapour pressure	Not applicable
Solubility	Water ; soluble
Relative density	No data available
Decomposition temperature	No data available
Auto-ignition temperature	Not applicable
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
рН	No data available

9.2. C	9.2. Other information								
	Minimum ignition energy	Not applicable							
	SADT	Not applicable							
	Absolute density	1210 kg/m³							

SECTION 10: Stability and reactivity

10.1. Reactivity

Substance has acid reaction.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

In molten state: reacts violently with (some) metals.

10.4. Conditions to avoid

Precautionary measures

Avoid raising dust. Keep away from naked flames/heat.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (sulphur oxides).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

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No (test)data available

potassium sulfate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 425	> 2000 mg/kg bw		Rat (male/female)	Read-across	
Dermal	LD50	OECD 402	> 2000 mg/kg bw		Rat (male/female)	Experimental value	
Inhalation	LC50		> 1.2 mg/l	4 h	Rat	Read-across	

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Product number: 52123

potassium hydrogensulphate

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		2340 mg/kg		Rat		

Conclusion

Not classified for acute toxicity

Corrosion/irritation

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R	oute of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
F	ve	Serious eve	OECD 437				Experimental value	
	yc	damage	0100 437					
s	kin	Not irritating	EU Method B.46				Experimental value	

potassium sulfate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	

Conclusion

Causes serious eye damage.

Not classified as irritating to the skin

Respiratory or skin sensitisation

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No (test)data available

potassium sulfate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Dermal	Not sensitizing	OECD 429			Mouse (female)	Read-across	

Conclusion

Not classified as sensitizing for skin

Specific target organ toxicity

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No (test)data available

potassium sulfate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL	OECD 422	≥ 1500 mg/kg bw/day		No adverse systemic effects	28 day(s)	Rat (male/female)	Experimental value
Oral	NOAEL	OECD 453	256 mg/kg bw/day		No adverse systemic effects	52 week(s)	Rat (male)	Read-across
Oral	NOAEL	OECD 453	284 mg/kg bw/day		No adverse systemic effects	52 week(s)	Rat (female)	Read-across

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

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No (test)data available

potassium sulfate

Result	Method	Test substrate	Effect	Value determination
Negative	OECD 473	Chinese hamster ovary (CHO)		Experimental value
Negative	OECD 476	Mouse (lymphoma L5178Y cells)		Read-across
Negative	OECD 471	Bacteria (S.typhimurium)		Experimental value
Negative	OECD 471	Escherichia coli		Experimental value

Mutagenicity (in vivo)

Solupotasse®

No (test)data available

Conclusion

Not classified for mutagenic or genotoxic toxicity

Reason for revision: 1.3-5.1

Carcinogenicity

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No (test)data available

potassium sulfate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Oral		Equivalent to OECD 453		104 week(s)	Rat (male/female)	No adverse systemic effects		Read-across

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

Solupotasse®

No (test)data available

pot	assium sulfate								
		Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
	Developmental toxicity	NOAEL	OECD 422	≥ 1500 mg/kg bw/day	28 day(s)	Rat (male)	No adverse systemic effects		Experimental value
		NOAEL	OECD 422	≥ 1500 mg/kg bw/day	53 day(s)	Rat (female)	No adverse systemic effects		Experimental value
	Effects on fertility	NOAEL	OECD 422	≥ 1500 mg/kg bw/day	28 day(s)	Rat (male/female)	No adverse systemic effects		Experimental value

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

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No (test)data available

SECTION 12: Ecological information

12.1. Toxicity

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No (test)data available potassium sulfate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	EPA 600/4- 90/027	680 mg/l	96 h	Pimephales promelas	Static system	Fresh water	Experimental value
Acute toxicity crustacea	LC50	EPA 600/4- 90/027	720 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50	Other	2700 mg/l	18 day(s)	Chlorella vulgaris	Static system	Fresh water	Read-across
Toxicity aquatic micro- organisms	EC50		> 100 mg/l		Activated sludge			Weight of evidence
	NOEC		100 mg/l		Activated sludge			Weight of evidence
ootassium hydrogensulphate		-			•			
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		3500 mg/l		Leuciscus idus			

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

Biodegradability: not applicable

12.3. Bioaccumulative potential

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Reason for revision: 1.3-5.1

L	Log Kow										
	Method	Remark	Value	Temperature	Value determination						
		No data available									

Conclusion

No test data of component(s) available

12.4. Mobility in soil

Low potential for adsorption in soil

12.5. Results of PBT and vPvB assessment

The criteria of PBT and vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006 do not apply to inorganic substances.

12.6. Other adverse effects

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Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

16 05 07* (gases in pressure containers and discarded chemicals: discarded inorganic chemicals consisting of or containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

Depending on branch of industry and production process, also other waste code

13.1.2 Disposal methods

Recycle/reuse. Precipitate/make insoluble. Remove to an authorized dump (Class I). Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

Transport	Not subject	
4.2. UN proper shipping name		
4.3. Transport hazard class(es)		
Hazard identification number		
Class		
Classification code		
4.4. Packing group		
Packing group		
Labels		
4.5. Environmental hazards		
Environmentally hazardous substance mark	no	
4.6. Special precautions for user		
Special provisions		
Limited quantities		
4.7. Transport in bulk according to Annex II of Marpol and the	BC Code	
Annex II of MARPOL 73/78	Not applicable	

Reason for revision: 1.3-5.1

	latory information		
Safety health a	and environmental regulations/legislation	n specific for the substance or mixture	
uropean legislation:			
VOC content Directi	NO 2010/75/511		
VOC content Direction	Ve 2010/75/E0		
VOC content		Remark	
0 %			
National legislation G	iermany		
WGK	1; Classification in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 200 Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) of 18 April 2017		
TA-Luft	5.2.1	5.2.1	
2. Chemical safet	zv assessment		
A chemical safety a	assessment has been performed		
ON 16: Othe	er information		
ON 16: Othe	er information		
ON 16: Othe full text of any H-stat	er information rements referred to under heading 3: ere skin burns and eve damage		
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ON 16: Othe full text of any H-stat H314 Causes seve H318 Causes serie H335 May cause f (*) CLP (EU-GHS) DMEL DNEL EC50 ErC50 LC50	er information mements referred to under heading 3: ere skin burns and eye damage. ous eye damage. respiratory irritation. INTERNAL CLASSIFICATION BY BIG Classification, labelling and packaging (Globa Derived Minimal Effect Level Derived No Effect Level Effect Concentration 50 % EC50 in terms of reduction of growth rate Lethal Concentration 50 %	lly Harmonised System in Europe)	
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