




SAFETY DATA SHEET

Potassium Sulphate

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

Product name	Potassium Sulphate
Applications	Fertiliser: EC FERTILISER (Regulation No 2003/2003 of the European Parliament and of the Council)
Supplier	Acinor AS Titangt. 13 1630 Gamle Fredrikstad Norway Tel: +47 69 38 40 82 Fax: +47 69 38 40 84 E-mail: rolf.egil@acinor.no www.acinor.no
Contact person	Rolf Egil de Flon (E-mail: rolf.egil@acinor.no)
Emergency telephone number	National Poisons Information Service (NPIS), phone 0844 892 0111. WEB: http://www.toxbase.org
EC No.	231-915-5
CAS No.	7778-80-5
Reg.No. REACH	01-2119489441-34

2. HAZARDS IDENTIFICATION

	On grounds of experience and test data, the classification for this preparation is less stringent than the one imposed by the criteria of the conventional method referred to in Directive 1999/45/EC
Hazard communication CLP	Classification and labelling according to the criteria of Regulation (EC) No 1272/2008 and after evaluation of available test data.
Symbol(s)	
Contains	potassium hydrogensulphate
Risk phrases	R-41 Risk of serious damage to eye.
Safety phrases	S-2 Keep out of reach of children. S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S-39 Wear eye/face protection. S-46 If swallowed seek medical advice immediately and show this container or label.
CLP	
Hazard pictograms	



Signal word	Danger
Hazard statements	Eye Dam. 1: H318 Causes serious eye damage.
Precautionary statements	P102 Keep out of reach of children. P280 Wear protective gloves/protective clothing/eye protection/face protection. P310 Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	EC No.	CAS No.	Content	Symbol	Classification
potassium sulphate	231-915-5	7778-80-5	>85 %	-	
potassium hydrogensulphate	231-594-1	7646-93-7	10-15 %	C	R-34, R-37

CLP

Name	CAS No.	REACH No.	Content	Symbol	Classification
potassium sulphate	7778-80-5		>85 %		
potassium hydrogensulphate	7646-93-7		10-15 %	GHS07, GHS05	Skin Corr. 1B: H314, STOT SE 3: H335

Section 16 contains detailed classification phrases.

4. FIRST AID MEASURES

Inhalation	Move the exposed person to fresh air at once. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance.
Ingestion	Rinse mouth with water. Drink plenty of water.
Skin	Wash skin thoroughly with soap and water. Contact physician if irritation continues.
Eyes	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Do not apply neutralizing agents.

5. FIRE-FIGHTING MEASURES

Extinguishing media	Use extinguishing media appropriate for surrounding fire.
Special fire fighting procedures	Containers close to fire should be removed or cooled with water. Dilute toxic gases with water spray.
Specific hazards	Non-flammable.
Hazardous combustion products	Toxic and corrosive gases/vapours (sulphur oxides)
Protective measures in fire	Wear self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

6. ACCIDENTAL RELEASE MEASURES

Personal protection	Wear appropriate personal protective equipment - see Section 8.
Environmental protection	Avoid discharge into drains, water courses or onto the ground.

Spill cleanup methods Stop dust cloud by humidifying. Remove mechanically. Collect in containers and seal securely. Clean contaminated surfaces with an excess of water. See section 13.

7. HANDLING AND STORAGE

Usage precautions Wear appropriate personal protective equipment - see Section 8. Keep away from ignition sources. Container must be kept tightly closed.

Storage precautions Keep in cool, dry, ventilated storage and closed containers. Do NOT use containers made of: Aluminium. Metal. Use containers of glass or ceramic material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name	CAS no.	Reference	LT Exp 8 Hrs	ST Exp 15 Min	Date
Inert or nuisance dust, inhalable		WEL.	10 mg/m ³		
Dust, respirable		WEL.	4 mg/m ³		

Ingredient comments WEL = Workplace exposure limits. SK= Skin absorbance, Rep= Reproduction, Carc= Carcinogenic Senz= Sensitisers, Mut= Carcinogenic

Protective equipment



Process conditions Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash, quick drench.

Ventilation Provide adequate general and local exhaust ventilation.

Respirators In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

Protective gloves Use protective gloves made of: Butyl rubber. Nitrile. Neoprene. Time of breakthrough is not known, change gloves regularly.

Eye protection Wear approved safety goggles.

Other Protection Wear appropriate clothing to prevent any possibility of skin contact.

Hygienic work practices Wash at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Crystalline powder	
Colour	Colourless. / White.	
Odour	No characteristic odour.	
Solubility description	Soluble in water.	
Density (g/cm³)	> 2,3	Temperature (°C)

10. STABILITY AND REACTIVITY

Stability Stable under normal temperature conditions and recommended use.

Hazardous polymerisation Will not polymerise.

Materials to avoid In molten state: reacts violently with (some) metals

Hazardous decomp. products No hazardous decomposition compounds at recommended use.

11. TOXICOLOGICAL INFORMATION

Toxic dose - LD 50:	> 2000 mg/kg (oral rat)
Sensitization	No allergic reaction is known.
Genotoxicity	No known heritable or mutagenic effects.
Carcinogenicity	No cancer hazard.
Reproduction toxicity	No known hazardous effects on reproduction, fertility or to the unborn child.
Inhalation	Dust may irritate respiratory system or lungs.
Ingestion	May irritate and cause stomach pain, vomiting and diarrhoea. Decreased renal function, and disturbances of heart rate.
Skin	May cause irritation. Skin rash/inflammation.
Eyes	Risk of serious damage to eye. Irritating and may cause redness and pain. Immediate first aid is necessary.
Health warnings	The product causes severe burns. Prolonged or repeated exposure could result in permanent injury.
COMPONENT:	potassium sulphate
Toxic dose - LD50:	6600 mg/kg (oral rat)
COMPONENT:	potassium hydrogensulphate
Toxic dose - LD50:	2340 mg/kg (oral rat)

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not regarded as dangerous to the environment. This does not, however, rule out the possibility that large or frequent smaller emissions of the product may be harmful to the environment.
Mobility	The product is soluble in water.
Bioaccumulative potential	Unknown.
Persistence and degradability	Unknown.
Other adverse effects	Results of PBT and vPvB assessment: No data available. Not dangerous for the ozone layer (1999/45/EC).
COMPONENT:	potassium sulphate
LC 50, 96 Hrs, Fish mg/l:	653-796 (Lepomis Macrochirus)
EC 50, 48 Hrs, Daphnia, mg/l:	890 (Daphnia Magna)
COMPONENT:	potassium hydrogensulphate
LC 50, 96 Hrs, Fish mg/l:	3500 (Leuciscus Idus)

13. DISPOSAL CONSIDERATIONS

General/cleaning	Hazardous waste.
Disposal methods	Dispose of in accordance with Local Authority requirements.
Waste class	06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13 The given EWC-code is a guiding, and the code depends on how the waste is formed. User must evaluate the choice of correct code.
Contaminated packaging	15 01 10* : packaging containing residues of or contaminated by dangerous substances.

14. TRANSPORT INFORMATION

General	No dangerous goods (ADR/RID, IMDG, IATA/ICAO)
ROAD TRANSPORT (ADR):	
RAIL TRANSPORT (RID):	
SEA TRANSPORT (IMDG):	

15. REGULATORY INFORMATION

EU directives	EC 1907/2006 (REACH), EC 1272/2008 (CLP), (EC) 453/2010
EC no.	231-915-5

16. OTHER INFORMATION

Explanations to R-phrases in section 3	R-34 Causes burns. R-37 Irritating to respiratory system.
Explanations to classification in section 3	H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.
* Information revised since the previous version of the SDS	
Issued by	Essenticon AS, Leif Weldingsvei 10, N-3208 Sandefjord, Norway. Tel.: +47 33 42 34 50 - Fax: +47 33 42 34 59 www.essenticon.com
Date of issue	17.04.2011
Safety Data Sheet status	CLP 00
Signature	BH
Disclaimer	The information in this data sheet is considered to be correct according to present knowledge and experience, but there is no guarantee that it is complete. It is therefore in the user's interest to ensure that the information is sufficient for the area it is intended for.