



Page 1/4 Printing date 06/15/2018 Revision date 06/14/2018 Version 1

	Version 1
1 Identification Product identifier	
Product name: Potassium sulfate	
Stock number: 10845 CAS Number: 7778-80-5 EC number: 231-915-5 Relevant identified uses of the substance or mixture and uses advised against.	
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.	
30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928	-0789.
<b>2 Hazard(s) identification</b> Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable	
WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 0 REACTIVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 7778-80-5 Potassium sulfate Concentration: ≤100% Identification number(s): EC number: 231-915-5	
4 First-aid measures	
Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact Immediately wash with water and soap and rinse thoroughly.	
Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor	
Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures Extinguishing media	
Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Sulfur oxides (SOx) Potassium oxide	
Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	(Contd. on page 2) USA

## Product name: Potassium sulfate

Environmental precautions: Do not allo Methods and material for containment Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 13 for disposal information. Protective Action Criteria for Chemica PAC-1: 20 mg/m3 PAC-2: 220 mg/m3 PAC-3: 1,300 mg/m3	ndling al protection equipment.	(Contd. of page 1)
Conditions for safe storage, including Storage Poquirements to be met by storeroom	is and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. Inditions:	
Control parameters Components with limit values that req The product does not contain any releva Additional information: No data Exposure controls Personal protective equipment General protective and hygienic meas The usual protective and hygienic meas The usual protective and hygienic meas Remove all soiled and contaminated clou Wash hands before breaks and at the er Maintain an ergonomically appropriate w Breathing equipment: Use suitable res Recommended filter device for short i Use a respirator with type N95 (USA) or purifying respirators are appropriate. Or Protection of hands: Impervious gloves	In technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. In the monitoring at the workplace: In the monitoring at the workplace: In the monitoring at the workplace: In the monitorials should be followed. In feed. In feed. In feed. In the monitorials should be followed. In feed. In the monitorials should be followed. In feed. In the monitorials should be followed. In the monitorials should be followed. In the feed. In the monitorials should be followed. In the monitorials should be performed to call the feel. In the monitorial should be performed to call the followed of the monitorial should be performed to call the monitorial should be performed to call the monitorial should be performed to call the followed of the monitorial should be performed to call the monitorial should be performed to cal	letermine if air-
Glove thickness: 0.11 mm Eye protection: Safety glasses with side Body protection: Protective work clothi		
9 Physical and chemical properties Information on basic physical and che General Information Appearance: Form: Odor: Odor: Odor threshold:		
pH-value: Change in condition Melfing point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable. 1069 °C (1956 °F) 1689 °C (3072 °F) Not determined Not determined Not determined Not determined Not determined Not determined.	
Addo Igning. Danger of explosion: Explosion limits: Lower: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic:	Not determined. Not determined Not determined Not applicable. 2.662 g/cm <sup>3</sup> (22.214 lbs/gal) Not determined. Not determined. Not applicable. Not determined	
		(Contd. on page 3) USA

Product name: <b>Potassium su</b>	
kinematic:	(Contd. of page 2)
Other information	Not applicable. No further relevant information available.
Thermal decomposition / co Possibility of hazardous rea	der recommended storage conditions. anditions to be avoided: Decomposition will not occur if used and stored according to specifications. actions Reacts with strong oxidizing agents ner relevant information available. dizing agents
LD/LC50 values that are rele Skin irritation or corrosion: I Eye irritation or corrosion: N Sensitization: No sensitizing Germ cell mutagenicity: No Carcinogenicity: No classifica Reproductive toxicity: No efi Specific target organ system	Il effects of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. evant for classification: No data May cause irritation effects known. effects known. ation data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Aspiration hazard: No effects	
Bioaccumulative potential N Mobility in soil No further rele Additional ecological inform General notes: Do not allow material to be rel Do not allow undiluted produci Avoid transfer into the environ Results of PBT and vPvB as PBT: Not applicable. vPvB: Not applicable.	lity No further relevant information available. No further relevant information available. levant information available. <b>nation:</b> leased to the environment without proper governmental permits. ot or large quantities to reach ground water, water course or sewage system. ment.
13 Disposal considerations Waste treatment methods Recommendation Consult sta Uncleaned packagings:	
14 Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADR, ADN, IMDG, IATA Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class Packing group	Not applicable
Packing group DOT, ADR, IMDG, IATA	Not applicable
Environmental hazards: Special precautions for user	Not applicable. Not applicable.
· · ·	to Annex II of MARPOL73/78 and the IBC Code Not applicable.
Transport/Additional inform	ation:
DOT Marine Pollutant (DOT):	Νο
UN "Model Regulation":	Not applicable
GHS label elements Not appl Hazard pictograms Not appli Signal word Not applicable Hazard statements Not applic	icable
National regulations	t are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL).

(Contd. on page 4) USA

## Product name: Potassium sulfate

(Contd. of page 3)

USA

(Contd. of page 3 California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. market and use must be observed.

Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department
Date of preparation/Revision: Print date, revision date and version number are in the header of each page.
Abbreviations and acronym:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Air Transport Association
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (Canada)
LC50: Lethal concentration, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ACGIH: American Cherence of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
IATA: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)