

-	Revision: 10.07.2014	
SECTION 1: Identification of the substa	ance/mixture and of the company/undertaking	
1.1 Product identifier		
Trade name	Potassium carbonate anhydrous	
Stock number: CAS Number:	A16625 584-08-7	
EC number: 1.2 Relevant identified uses of the substanc	209-529-3 e or mixture and uses advised against.	
Identified use:	SU24 Scientific research and development	
1.3 Details of the supplier of the safety data Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG	
	A Johnson Matthey Company Zeppelinstr. 7b	
	Zeppelinstr. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300	
	Fax: +49 (0) 721 84007 300	
	Email: tech@alfa.com www.alfa.com	
Informing department: 1.4 Emergency telephone number:	Product safety Tel + +049 (0) 7275 988687-0 Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number)	
	Product safety Tel + +049 (0) 7275 988687-0 Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number) Poison Information Center Mainz www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240	
SECTION 2: Hazards identification		
2.1 Classification of the substance or mixtu	re	
Classification according to Regulation (EC)		
CHS07		
Acute Tox. 4 H302 Harmful if swallowed.		
Eye Irrit. 2 H319 Causes serious eye irritati		
Classification according to Directive 67/548	/EEC or Directive 1999/45/EC	
R22: Harmful if swallowed.		
Xi; Irritant		
R36: Irritating to eyes. Information concerning particular hazards	Net en elizable	
for human and environment: Other hazards that do not result in	Not applicable	
classification	No information known.	
2.2 Label elements Labelling according to Regulation (EC) No		
1272/2008 Hazard pictograms	The substance is classified and labelled according to the CLP regulation.	
	GHS07	
Signal word Hazard statements	Warning H302 Harmful if swallowed.	
Precautionary statements	H319 Causes serious eve irritation	
r recautionary statements	P264 Wash thoroughly after handling.	
	P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	
	P337+P313 If eye irritation persists: Get medical advice/attention.	
	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
2.3 Other hazards Results of PBT and vPvB assessment	-	
PBT: vPvB:	Not applicable. Not applicable.	
SECTION 3: Composition/information (3.1 Substances	on ingreatents	
CAS# Designation: Identification number(s):	584-08-7 Potassium carbonate	
EC number:	209-529-3	
SECTION 4: First aid measures		
4.1 Description of first aid measures		
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.	
After skin contact	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.	
After eye contact	Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor.	
After swallowing 4.2 Most important symptoms and effects.	Seek medical tréatment.	
both acute and delayed 4.3 Indication of any immediate medical	No further relevant information available.	
attention and special treatment needed	No further relevant information available.	
SECTION 5: Firefighting measures		
5.1 Extinguishing media	CO2 extinguishing pounder or water jet. Eight larger fires with water jet as cleaned resistant from	
Suitable extinguishing agents 5.2 Special hazards arising from the	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.	
substance or mixture	If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
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5.3 Advice for firefighters	Potassium oxide
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.
SECTION 6: Accidental release measur	es
6.1 Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:	Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach sewage system or water bodies.
6.3 Methods and material for containment	Do not allow to enter the ground/soil.
and cleaning up: Prevention of secondary hazards: 6.4 Reference to other sections	Dispose of contaminated material as waste according to item 13. No special measures required. See Section 7 for information on safe handling See section 8 for information on personal protection equipment.
	See Section 13 for information on disposal.
SECTION 7: Handling and storage	
7.1 Precautions for safe handling	Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.
nformation about protection against	Ensure good ventilation/exhaustion at the workplace.
explosions and fires:	No information known.
7.2 Conditions for safe storage, including an Storage	y incompatibilities
Requirements to be met by storerooms and containers:	No special requirements.
nformation about storage in one common storage facility:	Store away from water.
Further information about storage	Store awaý from oxidising agents.
conditions:	Store under dry inert gas. This product is hygroscopic.
	Keep container tíghtly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and keep away from water.
7.3 Specific end use(s)	Protect from humidity and keep away from water. No further relevant information available.
SECTION 8: Exposure controls/persona	al protection
Additional information about design of	
echnical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face vel- of at least 100 feet per minute.
3.1 Control parameters	
Components with critical values that require nonitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monito
Additional information:	at the workplace. No data
3.2 Exposure controls	
Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals.
	Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.
	Avoid contact with the eves.
	Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations.
Breathing equipment:	Use breathing protection with high concentrations.
Protection of hands:	Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of qual and varies from manufacturer to manufacturer.
Material of gloves	Impervious gloves
Penetration time of glove material Eye protection:	Not determined Safety glasses
Body protection:	Face protection Protective work clothing.
SECTION 9: Physical and chemical pro	perties
9.1 Information on basic physical and chemi General Information	
Appearance: Form:	Powder
Colour: Smell:	White Odourless
Dour threshold:	Not determined.
bH-value (50 g/l) at 20 °C:	11,5-12,5
Change in condition Melting point/Melting range:	891 °C
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined
nflammability (solid, gaseous) gnition temperature:	Not determined. Not determined
Secomposition temperature: Self-inflammability:	Not determined Not determined
Danger of explosion:	Not determined.
	Not determined
Critical values for explosion: Lower:	
Lower: Upper:	Not determined
Lower:	

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Vapour density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic:	Not applicable. Not applicable. Not determined Not determined.	
kínematic: 9.2 Other information	Not applicable. No further relevant information available.	
SECTION 10: Stability and reactivity		
10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be	No information known. Stable under recommended storage conditions.	
avoided: 10.3 Possibility of hazardous reactions 10.5 Incompatible materials: 10.6 Hazardous decomposition products:	No decomposition if used and stored according to specifications. Reacts with strong oxidizing agents Water/moisture Oxidising agents Carbon monoxide and carbon dioxide Potassium oxide	
SECTION 11: Toxicological information		
11.1 Information on toxicological effects Acute toxicity:	Harmful if swallowed. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance	
LD/LC50 values that are relevant for classific Oral LD50 1870 mg/kg (rat)	ation:	
Skin irritation or corrosion: Eye irritation or corrosion: Sensitization: Germ cell mutagenicity:	May cause irritation Causes serious eye irritation. Causes serious eye damage. No sensitizing effect known. The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.	
Carcinogenicity: Reproductive toxicity: Specific target organ system toxicity - repeated exposure: Specific target organ system toxicity - single exposure: Aspiration hazard: Subacute to chronic toxicity:	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. No effects known. No effects known. No effects known. The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this	
Additional toxicological information:	substance. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
SECTION 12: Ecological information 12.1 Toxicity Aquatic toxicity: 12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil Additional ecological information: General notes:	No further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available. Do not allow material to be released to the environment without proper governmental permits. Water hazard class 1 (Assessment by list): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Avoid transfer into the environment. Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.	
12.5 Results of PBT and vPvB assessment PBT: vPvB: 12.6 Other adverse effects	Not applicable. Not applicable. Not applicable. No further relevant information available.	
SECTION 13: Disposal considerations 13.1 Waste treatment methods Recommendation	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.	
Uncleaned packagings: Recommendation:	Consult state, local or national regulations for proper disposal. Disposal must be made according to official regulations.	
SECTION 14: Transport information		
UN-Number ADR, ADN, IMDG, IATA	Not applicable	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Not applicable	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group		
ADR, IMĎG, IÅTA 14.5 Environmental hazards:	Not applicable Not applicable.	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Annex II o Code	of MARPOL73/78 and the IBC Not applicable.	
UN "Model Regulation":		
	DE (Contd. on page	

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SECTION 15: Regulatory information	
15.1 Safety, health and environmental regula Australian Inventory of Chemical	tions/legislation specific for the substance or mixture
Substances	Substance is listed.
Standard for the Uniform Scheduling of Medicines and Poisons National regulations Information about limitation of use:	Substance is not listed.
	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.
Water hazard class: Other regulations, limitations and prohibitiv	Water hazard class 1 (Assessment by list): slightly hazardous for water.
ELINCS (European List of Notified Chemical Substances) Substance of Very High Concern (SVHC)	Substance is not listed.
according to the ŘEAČH Regulations (EĆ) No. 1907/2006. REACH - Pre-registered substances 15.2 Chemical safety assessment:	Substance is not listed. Substance is listed. A Chemical Safety Assessment has not been carried out.
SECTION 16: Other information Employers should use this information only as a this information to ensure proper use and protec not in conformance with this Material Safety Da	a supplement to other information gathered by them, and should make independent judgement of suitability of ct the health and safety of employees. This information is furnished without warranty, and any use of the product ta Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Abbreviations and acronyms:	Health, Safety and Environmental Department. ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent VPWB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) LARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Acute Tox: 4: Acute toxicity, Hazard Category 4 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2