		according to 1907/2006/EC, Article 31			
Pri	nting date 11.04.2014		Revision: 10.04.2014		
SECTION 1: Identification of the substance/mixture and of the company/undertaking					
	1.1 Product identifier Trade name	Potassium hydrogen phosphate, dried			
	Stock number:	A11321			
	CAS Number: EC number:	7758-11-4 231-834-5			
	1.2 Relevant identified uses of the substance Identified use:	or mixture and uses advised against.			
	1.3 Details of the supplier of the safety data s	heet			
	Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG A Johnson Matthey Company			
		Zeppelinstr 7h			
		Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300			
		Email: tech@alfa.com www.alfa.com			
	Informing department:	Product safety Tel + $+049(0)$ 7275 988687-0			
	1.4 Emergency telephone 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 mixture Classification according to Regulation (EC) N				
	GHS07				
	Eve Irrit. 2 H319 Causes serious eve irritation.				
	Classification according to Directive 67/548/E	EC or Directive 1999/45/EC			
	Xi; Irritant				
	R36: Irritating to eyes. Information concerning particular hazards				
	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.			
		$\langle \mathbf{i} \rangle$			
		GHS07			
	Signal word Hazard statements	Warning H319 Causes serious eye irritation.			
	Precautionary statements	P280 Wear protective gloves/protective clothing/ove protection/face protectic	on.		
		P264 Weak biotective gloves/protective cloves/protection/race protection/race protection/ P264 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove a present and easy to do. Continue rinsing.	contact lenses, if		
	2.3 Other hazards	P337+P313 If eye irritation persists: Get medical advice/attention.			
	Results of PBT and vPvB assessment	Not applicable			
	PBT: vPvB:	Not applicable. Not applicable.			
	SECTION 3: Composition/information on ingredients				
	3.1 Substances	7759 11 1 Detersive hydrogen pheerbete			
	CAS# Designation: Identification number(s):	7758-11-4 Potassium hydrogen phosphate			
	EC number:	231-834-5			
	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 doct	or if symptoms		
		persist. Seek immediate medical advice.			
	After skin contact	Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.			
	After eye contact After swallowing	Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment.			
	4.2 Most important symptoms and effects, both acute and delayed	No further relevant information available.			
	4.3 Indication of any immediate medical attention and special treatment needed	No further relevant information available.			
	SECTION 5: Firefighting measures 5.1 Extinguishing media				
	Suitable extinguishing agents 5.2 Special hazards arising from the	Product is not flammable. Use fire fighting measures that suit the surrounding fire.			
	substance or mixture	If this product is involved in a fire, the following can be released: Phosphorus oxides			
	F.O. Ashing for first target	Potassium oxide			
	5.3 Advice for firefighters Protective equipment:	Wear self-contained breathing apparatus.			
		Wear full protective suit.			
	SECTION 6: Accidental release measures				
	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 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:	Collect mechanically. No special measures required.			
	· · · · · · · · · · · · · · · · · · ·	· ·	(Contd. on page 2) DE/E		

Revision: 10.04.2014

## Safety data sheet according to 1907/2006/EC, Article 31

rade name Potassium hydrogen phospl	nate dried
rade name Fotassium nydrogen prospi	
6.4 Reference to other sections	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. Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires:	The product is not flammable
7.2 Conditions for safe storage, including an	•
Storage Requirements to be met by storerooms and	
containers:	No special requirements.
Information about storage in one common storage facility:	Store away from water. Store away from oxidising agents.
Further information about storage conditions:	Store under dry inert gas. This product is hygroscopic. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and keep away from water.
7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure controls/persona	al protection
Additional information about design of	
technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face veloci of at least 100 feet per minute.
8.1 Control parameters Components with critical values that require monitoring at the workplace: Additional information:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. No data
8.2 Exposure controls	
Personal protective equipment General protective and hygienic measures	The usual processionary measures should be adhered to in handling the chemicals
	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any solied and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment
Breathing equipment: Protection of hands:	Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations. 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 quality and varies from manufacturer to manufacturer.
Material of gloves Penetration time of glove material Eye protection:	Impervious gloves Not determined Safety glasses Face protection
Body protection:	Protective work clothing.
SECTION 9: Physical and chemical pro	perties
9.1 Information on basic physical and chemi General Information Appearance:	cal properties
Form:	Powder White
Colour: Smell:	Not determined
Odour threshold:	Not determined.
pH-value: Change in condition	Not applicable.
Melting point/Melting range:	Not determined
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined
Inflammability (solid gaseous)	Not determined.
Ignition temperature: Decomposition temperature:	Not determined Not determined
Self-inflammability:	Not determined.
Danger of explosion: Critical values for explosion:	Not determined.
Lower: Upper:	Not determined Not determined
Steam pressure:	Not applicable.
Density	Not determined Not determined.
Relative density Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity:	Not determined Not determined.
dynamic:	Not applicable.
kínematic: 9.2 Other information	Not applicable. No further relevant information available.
SECTION 10: Stability and reactivity	
10.1 Reactivity	No information known.
10.2 Chemical stability	Stable under recommended storage conditions.

(Contd. on page 3) DE/E

Page 3/4

Printing date 11.04.2014         Revision: 10.04.2014				
Trade name Potassium hydrogen phosph	nate, dried			
	(Contd. of page 2)			
Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.			
10.3 Possibility of hazardous reactions 10.5 Incompatible materials:	Reacts with strong oxidizing agents Water/moisture			
	Oxidising agents			
10.6 Hazardous decomposition products:	Phosphorus oxides (e.g. P2O5) Potassium oxide			
SECTION 11: Toxicological information				
11.1 Information on toxicological effects				
Acute toxicity: LD/LC50 values that are relevant for	No effects known.			
classification: Skin irritation or corrosion:	No data May cause irritation			
Eye irritation or corrosion:	Causes serious eve irritation.			
Sensitization: Germ cell mutagenicity:	No sensitizing effect known. No effects known.			
Carcinogenicity:	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Reproductive toxicity:	No effects known.			
Specific target organ system toxicity - repeated exposure:	No effects known.			
Specific target organ system toxicity - single exposure:	No effects known.			
Aspiration hazard: Subacute to chronic toxicity:	No effects known. No effects known.			
Additional toxicological information:	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:	No further relevant information available.			
12.2 Persistence and degradability	No further relevant information available.			
12.3 Bioaccumulative potential 12.4 Mobility in soil	No further relevant information available. No further relevant information available.			
Additional ecological information: General notes:				
General notes.	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.			
12.5 Results of PBT and vPvB assessment	Avoid transfer into the environment.			
PBT: vPvB:	Not applicable. Not applicable.			
12.6 Other adverse effects	No further relevant information available.			
SECTION 13: Disposal considerations				
13.1 Waste treatment methods Recommendation	Hand over to disposers of bazardous waste			
	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.			
Uncleaned packagings: Recommendation:	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, IMDG, IATA	Not applicable			
14.5 Environmental hazards:	Not applicable.			
14.6 Special precautions for user	Not applicable.			
14.7 Transport in bulk according to Annex II				
UN "Model Regulation":	Not applicable.			
SECTION 15: Regulatory information	tions/logislation specific for the substance or mixture			
Australian Inventory of Chemical	tions/legislation specific for the substance or mixture			
Substances Standard for the Uniform Scheduling of	Substance is listed.			
Medicines and Poisons National regulations	Substance is not listed.			
Information about limitation of use:	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.			
Classification according to VbF:	Not applicable			
Water hazard class: Other regulations, limitations and prohibitive	Water hazard class 1 (Self-assessment): slightly hazardous for water.			
ELINCS (European List of Notified Chemical	-			
Substances) Substances of very high concern (SVHC) according to REACH, Article 57	Substance is not listed.			
according to REACH, Article 57 REACH - Pre-registered substances	Substance is not listed. Substance is listed.			
15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.			

(Contd. on page 4)

(Contd. of page 3)

Page 4/4

## Trade name Potassium hydrogen phosphate, dried

SECTION 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 Material Safety Data 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) VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria) LC50: Lethal concentration, 50 percent VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTF: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2		