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	SECTION 1: Identification of the substant	ON 1: Identification of the substance/mixture and of the company/undertaking		
	1.1 Product identifier Trade name Stock number: CAS Number: 1.2 Relevant identified uses of the substance	Potassium hydride, 30% w/w in mineral oil L13266 7693-26-7 or mixture and uses advised against.		
	Identified use: 1.3 Details of the supplier of the safety data s Manufacturer/Supplier:	SU24 Scientific research and development Sheet Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Zeppelinstr. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300		
	Informing department: 1.4 Emergency telephone number:	Email: tech@alfa.com www.alfa.com 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	e No 1272/2008		
	$\triangle$	ases flammable gases which may ignite spontaneously.		
	GHS05 corrosion Skin Corr. 1B H314 Causes severe skin burns	s and eve damage		
	Classification according to Directive 67/548/			
	F; Highly flammable R14/15: Reacts violently with water, liberating Information concerning particular hazards for human and environment: Other hazards that do not result in	extremely flammable gases. Not applicable		
	classification 2.2 Label elements	No information known.		
	Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word	The substance is classified and labelled according to the CLP regulation. GHS02, GHS05 Danger		
	Hazard statements Precautionary statements	H260 In contact with water releases flammable gases which may ignite spontaneously.         H314 Causes severe skin burns and eye damage.         P231+P232       Handle under inert gas. Protect from moisture.         P260       Do not breathe dust/fume/gas/mist/vapours/spray.         P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.         P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P405       Store locked up.		
	Additional information: 2.3 Other hazards	P400 Biological up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. EUH014 Reacts violently with water.		
	Results of PBT and vPvB assessment PBT: vPvB:	Not applicable. Not applicable.		
	SECTION 3: Composition/information o			
	3.1 Substances CAS# Designation:	7693-26-7 Potassium hydride, 30% w/w in mineral oil		
	SECTION 4: First aid measures 4.1 Description of first aid measures General information After inhalation	Instantly remove any clothing soiled by the product. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor 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 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed	Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment.		
		No further relevant information available. No further relevant information available.		
	SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents For safety reasons unsuitable extinguishing agents 5.2 Special hazards arising from the substance or mixture	In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. Water.		
		Reacts violently with water If this product is involved in a fire, the following can be released: Potassium oxide Carbon monoxide and carbon dioxide		
		(Contd. on page 2)		

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de name <b>Potassium hydride, 30% w/</b> w	v in mineral oil	
		(Contd. of page
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.	
	Ensure adequate ventilation Keep away from ignition sources	
6.2 Environmental precautions:	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. Do not allow to enter the ground/soil.	
6.3 Methods and material for containment	с. С	
and cleaning up:	Keep away from ignition sources. Use neutralizing agent. Dispose of contaminated material as waste according to item 13.	
	Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents	
Prevention of secondary hazards:	Keep away from ignition sources.	
6.4 Reference to other sections	Keep away from ignition sources. 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.	
Information about protection against	Ensure good ventilation/exhaustion at the workplace.	
explosions and fires:	No information known.	
7.2 Conditions for safe storage, including ar Storage		
Requirements to be met by storerooms and containers:	No special requirements.	
Information about storage in one common		
storage facility:	Store away from oxidizing agents. Store away from water.	
Further information about storage conditions:	Store under dry inert gas.	
	This product is moisture sensitive. Protect from humidity and keep away from water.	
	Keep container tightly sealed.	
7.3 Specific end use(s) SECTION 8: Exposure controls/persona Additional information about design of		
SECTION 8: Exposure controls/personal Additional information about design of technical systems: Components with critical values that require	No further relevant information available. al protection Properly operating chemical fume hood designed for hazardous chemicals and having an ave of at least 100 feet per minute.	erage face velo
SECTION 8: Exposure controls/personal Additional information about design of technical systems:	No further relevant information available. al protection Properly operating chemical fume hood designed for hazardous chemicals and having an ave of at least 100 feet per minute. e Oil mist, mineral	erage face velo
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SECTION 8: Exposure controls/personal Additional information about design of technical systems: Components with critical values that require	No further relevant information available. al protection Properly operating chemical fume hood designed for hazardous chemicals and having an ave of at least 100 feet per minute. Oil mist, mineral mg/m3 ACGIH TLV 5 Ireland TWA 5; 10-STEL Netherlands TWA 5	erage face velo
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	(Contd. of page 2)	
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start: Flash point: Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Self-inflammability: Critical values for explosion:	Not determined 160 °C Contact with water liberates extremely flammable gases. Not determined Not determined Not determined.	
Lower: Upper: Steam pressure: Jensity at 20 °C Relative density apour density Svaporation rate Solubility in / Miscibility with	Not determined Not determined Not applicable. 1,45 g/cm <sup>3</sup> Not determined. Not applicable. Not applicable.	
Water: Partition coefficient (n-octanol/water): Viscosity:	Reacts violently Contact with water releases flammable gases Not determined.	
dynamîc: kinematic: 9.2 Other information	Not applicable. Not applicable. No further relevant information available.	
SECTION 10: Stability and reactivity		
10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be	Reacts violently with water. In contact with water releases flammable gases which may ignite spontaneously. Stable under recommended storage conditions.	
avoided: 10.3 Possibility of hazardous reactions	No decomposition if used and stored according to specifications. Contact with water releases flammable gases Reacts violently with water	
10.5 Incompatible materials: 10.6 Hazardous decomposition products:	Oxidizing agents Water/moisture Carbon monoxide and carbon dioxide Potassium oxide	
SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute toxicity:	Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of	
LD/LC50 values that are relevant for classification: Skin irritation or corrosion: Eye irritation or corrosion: Sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity:	esophagus and stomach. No data Causes severe skin burns. Causes serious eye damage. No sensitizing effect known. No effects known. IARC-3: Not classifiable as to carcinogenicity to humans. No effects known.	
Specific target organ system toxicity - repeated exposure: Specific target organ system toxicity - single exposure: Aspiration hazard: Additional toxicological information:	No effects known. No effects known. No effects known. No effects known. 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:	No further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available.	
General notes:	Do not allow material to be released to the environment without proper governmental permits. 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. Avoid transfer into the environment.	
12.5 Results of PBT and vPvB assessment PBT: vPvB: 12.6 Other adverse effects	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. 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, IMDG, IATA	UN1409	
14.2 UN proper shipping name ADR	1409 METAL HYDRIDES, WATER-REACTIVE, N.O.S. (Potassium hydride,	
IMDG, IATA	30% w/w in mineral oil) METAL HYDRIDES, WATER-REACTIVE, N.O.S. (Potassium hydride, 30% w/w in mineral oil)	
	(Contd. on page 4) DE/E	

Revision: 29.07.2011

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

Printing date 02.07.2013

rade name <b>Potassium hydride, 30% w/</b>	w in mineral oil				
		(Contd. of page 3			
14.3 Transport hazard class(es) ADR					
Class Label IMDG, IATA		<ul><li>4.3 (W2) Substances which, in contact with water, emit flammable gases.</li><li>4.3</li></ul>			
Class Label		4.3 Substances which, in contact with water, emit flammable gases.			
Packing group ADR, IMDG, IATA		1			
14.5 Environmental hazards:		Not applicable.			
14.6 Special precautions for user		Warning: Substances which, in contact with water, emit flammable gases.			
14.7 Transport in bulk according to Annex I Code	I of MARPOL73/78 and the IB	C Not applicable.			
Transport/Additional information:					
ADR Excepted quantities (EQ): Limited quantities (LQ) Transport category		E0 0 1			
Tunnel restriction code UN "Model Regulation":		E UN1409, METAL HYDRIDES, WATER-REACTIVE, N.O.S. (Potassium hydride 30% w/w in mineral oil), 4.3, I			
		30 % w/w in mineral oil), 4.3, 1			
SECTION 15: Regulatory information 15.1 Safety, health and environmental regul	ations/legislation specific for	the substance or mixture			
Australian Inventory of Chemical					
Substances Standard for the Uniform Scheduling of	Substance is listed.				
Drugs and Poisons	Substance is not listed.				
National regulations Information about limitation of use:	Employment restrictions cond For use only by technically qu	cerning young persons must be observed. Jalified individuals.			
Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Other regulations, limitations and prohibitive regulations ELINCS (European List of Notified Chemical					
Substances)	Substance is not listed.				
Substances of very high concern (SVHC) according to REACH, Article 57	Substance is not listed.				
REACH - Pre-registered substances	Substance is listed.				
15.2 Chemical safety assessment:	A Chemical Safety Assessme	ent has not been carried out.			
<b>SECTION 16: Other information</b> Employers should use this information only as this information to ensure proper use and prote not in conformance with this Material Safety Da	a supplement to other informati ect the health and safety of emp ata Sheet, or in combination wit	on gathered by them, and should make independent judgement of suitability of loyees. This information is furnished without warranty, and any use of the product h any other product or process, is the responsibility of the user.			
	t: Health, Safety and Environmer RID: Règlement international concerna Transport of Dangerous Goods by Rai ICAO: International Civil Aviation Orga	ental Department. Int le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the Internationa)			

ADR: Accord européen sur le transport des marchandises dangereuses par Rou Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

DE/E