		according to 1907/2006/EC, Article 31	
Prin	ting date 02.07.2013	Revision: 13.12.2012	
	SECTION 1: Identification of the substar	nce/mixture and of the company/undertaking	
	1.1 Product identifier Trade name Stock number: CAS Number: 1.2 Relevant identified uses of the substance	Polyvinylpyrrolidone, M. W. 40000 A14315 9003-39-8	
	1.3 Details of the supplier of the safety data s	·	
	Manufacturer/Supplier:	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 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) 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) No 1272/2008	The substance is not classified as hazardous to health or the environment according to the CLP regulation.	
	Classification according to Directive 67/548/		
	EEC or Directive 1999/45/EC Information concerning particular hazards	Not applicable	
	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	Not applicable Not applicable	
	Hazard pictograms Signal word	Not applicable	
	Hazard statements 2.3 Other hazards	Not applicable	
	Results of PBT and vPvB assessment PBT:	Not applicable. Not applicable.	
	SECTION 3: Composition/information or 3.1 Substances	n ingreaients	
	CAS# Designation:	9003-39-8 Polyvinylpyrrolidone	
	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. 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		
	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 Suitable extinguishing agents	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.	
	5.2 Special hazards arising from the		
	substance or mixture	If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)	
	5.3 Advice for firefighters Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.	
	SECTION 6: Accidental release measure		
	6.1 Personal precautions, protective		
	equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
	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 and cleaning up:	Collect mechanically.	
	Prevention of secondary hazards: 6.4 Reference to other sections	No special measure's 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	Keep containers tightly sealed.	
	Information about protection against	Store in cool, dry place in tightly closed containers.	
	explosions and fires:	No information known.	
	7.2 Conditions for safe storage, including any Storage	/ incompatibilities	
	Requirements to be met by storerooms and	No epocial requirements	
	containers:	No special requirements. (Contd. on page 2)	
		DE/E	

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Information about storage in one common	(Contd. of page
storage facility: Further information about storage	Store away from oxidizing agents.
conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.
7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure controls/person	al protection
Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velo
	of at least 100 feet per minute.
8.1 Control parameters Components with critical values that require	
monitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monito at the workplace.
Additional information:	No data
8.2 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. 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 qual and varies from manufacturer to manufacturer.
Material of gloves Penetration time of glove material	Impervious gloves Not determined
Eye protection: Body protection:	Safety glasses Protective work clothing.
SECTION 9: Physical and chemical pro	
9.1 Information on basic physical and chem	·
General Information Appearance:	
Form: Colour:	Powder White
Smell: Odour threshold:	Not determined Not determined.
oH-value:	Not applicable.
Change in condition	
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Inflammability (solid, gaseous)	Not determined Not determined Not determined.
gnition temperature:	Not determined
Decomposition temperature: Self-inflammability:	Not determined Not determined.
Critical values for explosion: Lower:	Not determined
Upper: Steam pressure:	Not determined Not applicable.
Density	Not determined
Relative density Vapour density	Not determined. Not applicable.
Evaporation rate Solubility in / Miscibility with	Not applicable.
Water: Partition coefficient (n-octanol/water):	Not determined Not determined.
dynamic:	Not applicable.
kinematic: 9.2 Other information	Not applicable. No further relevant information available.
SECTION 10: Stability and reactivity	No information known
10.1 Reactivity 10.2 Chemical stability	No information known. Stable under recommended storage conditions.
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 Oxidizing agents
10.6 Hazardous decomposition products:	Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)
SECTION 11: Toxicological information	
11.1 Information on toxicological effects Acute toxicity:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for component
LD/LC50 values that are relevant for	this product.
classification: Skin irritation or corrosion:	No data May cause irritation
Eye irritation or corrosion: Sensitization:	Maý cause irritation No sensitizing effect known.
Germ cell mutagenicity: Carcinogenicity:	No effects known. IARC-3: Not classifiable as to carcinogenicity to humans.
Reproductive toxicity:	No effects known.
Specific target organ system toxicity - repeated exposure:	No effects known.
Specific target organ system toxicity - singl	e No effects known

 Specific target organ system toxicity - single
 No effects known.

 Specific target organ system toxicity - single
 No effects known.

 exposure:
 No effects known.

 Aspiration hazard:
 No effects known.

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Additional toxicological information:	(Contd. of participation) 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	No further relevant information available. No further relevant information available. No further relevant information available.			
12.4 Mobility in soil Additional ecological information:	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 syste Avoid transfer into the environment.			
12.5 Results of PBT and vPvB assessment PBT: vPvB: 12.6 Other educates officets	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 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 14.3 Transport hazard class(es)	Not applicable			
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 14.7 Transport in bulk according to Annex II	Not applicable.			
Code	Not applicable.			
UN "Model Regulation":				
SECTION 15: Regulatory information				
15.1 Safety, health and environmental regula Australian Inventory of Chemical	ations/legislation specific for the substance or mixture			
Substances Standard for the Uniform Scheduling of	Substance is listed.			
Drugs and Poisons National regulations	Substance is not listed.			
Information about limitation of use:	For use only by technically qualified individuals.			
Water hazard class: Other regulations, limitations and prohibitive	Water hazard class 1 (Self-assessment): slightly hazardous for water. // regulations			
ELINCS (European List of Notified Chemical Substances)	Substance is not listed.			
Substances of very high concern (SVHC) according to REACH, Article 57 REACH - Pre-registered substances	Substance is not listed.			
15.2 Chemical safety assessment:	Substance is listed. A Chemical Safety Assessment has not been carried out.			
this information to ensure proper use and prote	a supplement to other information gathered by them, and should make independent judgement of suitability of et the health and safety of employees. This information is furnished without warranty, and any use of the pro- ata Sheet, or in combination with any other product or process, is the responsibility of the user.			
Department issuing data specification sheet Abbreviations and acronyms:	it: Health, Safety and Environmental Department. ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carria Dangerous Goods by Road) GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concernitation, 50 percent LD50: Lethal dose, 50 percent			
	CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent			