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inting date 05.03.2014 Revision: 28.02.2014			
SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1 Product identifier Trade name	Sodium pyrophosphate		
Stock number:	A17546		
CAS Number: EC number:	7722-88-5 231-767-1		
1.2 Relevant identified uses of the substance Identified use:	e or mixture and uses advised against. SU24 Scientific research and development		
1.3 Details of the supplier of the safety data sheet 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		
	Fax: +49 (0) 721 84007 300 Email: tech@alfa.com		
Informing department:	www.alfa.com		
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 mixtur Classification according to Regulation (EC)			
GHS07	NU 121212000		
$\checkmark$			
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation	n.		
STOT SE 3 H335 May cause respiratory irritat			
Classification according to Directive 67/548/	EEC or Directive 1999/45/EC		
R36/37/38: Irritating to eyes, respiratory system Information concerning particular hazards	em and skin.		
for human and environment: Other hazards that do not result in	Not applicable		
classification2.2 Label elements	No information known.		
Labelling according to Regulation (EC) No 1272/2008	The substance is cleasified and localled according to the CLD regulation		
Hazard pictograms	The substance is classified and labelled according to the CLP regulation.		
Signal word	GHS07 Warning		
Hazard statements	H315 Causes skin irritation.		
Precautionary statements	H319 Causes serious eye irritation. H335 May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/yapours/spray.		
······	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
	P304+P340 present and easy to do. Continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for		
	breathing. P405 Store locked up.		
	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 on ingredients			
3.1 Substances	-		
CAS# Designation: Identification number(s):	7722-88-5 Sodium pyrophosphate		
EC number:	231-767-1		
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 treatment.		
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	Product is not flammable. Use fire fighting measures that suit the surrounding fire.		
5.2 Special hazards arising from the substance or mixture	If this product is involved in a fire, the following can be released:		
	Sodium oxide Phosphorus oxides		
5.3 Advice for firefighters Protective equipment:	Wear self-contained breathing apparatus.		
	Wear full protective suit.		
	(Contd. on page 2)		

## Trade name Sodium pyrophosphate

SECTION 6: Accidental release measures

(Contd. of page 1)

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. Do not allow to enter the ground/soil.	
6.3 Methods and material for containment	-	
and cleaning up: Prevention of secondary hazards:	Ensure adequate ventilation. No special measures required.	
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.	
1.1 Trecautions for sale narranny	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: 7.2 Conditions for safe storage, including a	The product is not flammable ny incompatibilities	
Storage Requirements to be met by storerooms and		
containers: Information about storage in one common	No special requirements.	
storage facility:	Store away from water. Store away from oxidising agents.	
Further information about storage conditions:	Store under dry inert gas.	
	This product is hygrošcopic. 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/person	al protection	
Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity	
8.1 Control parameters	of at least 100 feet per minute.	
Components with critical values that require	e monitoring at the workplace:	
7722-88-5 Sodium pyrophosphate (100,0%) REL (USA) Long-term value: 5 mg/m <sup>3</sup>		
TLV (USA) TLV withdrawn Additional information:	No data	
8.2 Exposure controls	No data	
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.	
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Breathing equipment: Protection of hands:	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 eyes and skin. Maintain an ergonomically appropriate working environment.	
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Breathing equipment: Protection of hands: Material of gloves Penetration time of glove material	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 eyes and skin. 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. Impervious gloves Not determined	
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Revision: 28.02.2014

	Nevision. 20.02.2014	
Trade name Sodium pyrophosphate		
	(Contd. of page 2)	
Solubility in / Miscibility with Water at 100 °C: Partition coefficient (n-octanol/water): Viscosity: dynamic:	402,6 g/l Not determined.	
dynamic: kinematic: 9.2 Other information	Not applicable. Not applicable. No further relevant information available.	
SECTION 40. Stability and reactivity		
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:	No decomposition if used and stored according to specifications. Reacts with strong oxidizing agents Water/moisture	
10.6 Hazardous decomposition products:	Oxidising agents Sodium oxide Phosphorus oxides (e.g. P2O5)	
SECTION 11: Toxicological information		
11.1 Information on toxicological effects		
Acute toxicity: LD/LC50 values that are relevant for	The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.	
classification: Skin irritation or corrosion:	No data Causes skin irritation.	
Eye irritation or corrosion:	Causes serious eve irritation.	
Sensitization: Germ cell mutagenicity:	No sensitizing efféct 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: Specific target organ system toxicity -	No effects known.	
repeated exposure:	No effects known.	
Specific target organ system toxicity - single exposure:	May cause respiratory irritation.	
Aspiration hazard: Subacute to chronic toxicity:	No effects known. No effects known.	
Subacute to chronic toxicity: 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	No. Scotto e a contra contra contra constructor a contra la contra c	
Aquatic toxicity: 12.2 Persistence and degradability 12.3 Bioaccumulative potential	No further relevant information available. 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:	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 PBT: vPvB:	Avoid transfer into the environment. 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 dianasars of hazardove waste	
Ecommendation	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.	
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 Code	of MARPOL73/78 and the IBC Not applicable.	
UN "Model Regulation":		
SECTION 15: Regulatory information 15.1 Safety, health and environmental regula Australian Inventory of Chemical	15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
Substances	Substance is listed.	
Standard for the Uniform Scheduling of Medicines and Poisons	Substance is not listed.	
National regulations Information about limitation of use:	Employment restrictions concerning young persons must be observed.	
	For use only by technically qualified individuals. (Contd. on page 4)	
	(Conta: on page 4) DE/E	

Trade name Sodium pyrophosphate		
	(Contd. of page 3)	
Water hazard class: Other regulations, limitations and prohibitive ELINCS (European List of Notified Chemical Substances) Substances of very high concern (SVHC) according to REACH, Article 57 REACH - Pre-registered substances 15.2 Chemical safety assessment:		
this information to ensure proper use and protect not in conformance with this Material Safety Date	a supplement to other information gathered by them, and should make independent judgement of suitability of to the health and safety of employees. This information is furnished without warranty, and any use of the product ia Sheet, or in combination with any other product or process, is the responsibility of the user. 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 dose, 50 percent	
	DPUS: Letrial dose, 30 percent     Provide and very Bioaccumulative     ACGIH: American Conference of Governmental Industrial Hygienists (USA)     OSH4: Occupational Safety and Health Administration (USA)     NTP: National Toxicology Program (USA)     IARC: International Agency for Research on Cancer     EPA: Environmental Protection Agency (USA)     Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2     Eve Irrit. 2: Serious eve damage/eve irritation, Hazard Category 2     STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3     DE/E	