

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier Trade name <b>Sodium phosphate dodecahydrate</b>
Stock number: 11590 CAS Number: 10101-89-0 EC number: 231-509-8
<ul> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against. No further relevant information available.</li> <li>Identified use: SU24 Scientific research and development</li> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier:</li> </ul>
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www.alfa.com Informing department: Product safety Tel + +049 (0) 7275 988687-0 1.4 Emergency telephone number: 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 GHS05 corrosion
Skin Corr. 1C H314 Causes severe skin burns and eye damage.
Classification according to Directive 67/548/EEC or Directive 1999/45/EC
R34: Causes burns. Information concerning particular hazards for human and environment: Not applicable Other hazards that do not result in classification No information known.
2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. Hazard pictograms
GHS05
Signal word Danger         Hazard statements         H314 Causes severe skin burns and eye damage.         Precautionary statements         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P305+P351+P338  F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P309       IF exposed or if you feel unwell:         P310       Immediately call a POISON CENTER or doctor/physician.         2.3 Other hazards       Results of PBT and vPvB assessment         PBT: Not applicable.       VPvB: Not applicable.
SECTION 3: Composition/information on ingredients
3.1 Substances CAS# Designation: 10101-89-0 Sodium phosphate dodecahydrate Identification number(s): EC number: 231-509-8
SECTION 4: First aid measures
4.1 Description of first aid measures General information Instantly remove any clothing soiled by the product. 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 Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing 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
<ul> <li>5.1 Extinguishing media</li> <li>Suitable extinguishing agents Product is not flammable. Use fire fighting measures that suit the surrounding fire.</li> <li>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         Sodium oxide         Output         Description:         Sodium oxide         Sodium oxide</li></ul>
Phosphorus oxides 5.3 Advice for firefighters
Protective equipment: Wear self-contained breathing apparatus. (Contd. on page 2)
DE

## Trade name Sodium phosphate dodecahydrate

	(Contd. of page 2		
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 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: Use neutralizing agent. Dispose of contaminated material as waste according to item 13.			
Dispose of contaminated material as wa Ensure adequate ventilation. Prevention of secondary hazards: No 6.4 Reference to other sections See Section 7 for information on safe ha See section 8 for information on persona See Section 13 for information on dispose	special measures required. andling al protection equipment.		
	containers. le workplace. <b>explosions and fires:</b> The product is not flammable		
7.2 Conditions for safe storage, include Storage Requirements to be met by storeroom Information about storage in one com Do not store together with acids. Store away from oxidising agents. Further information about storage con Keep container tightly sealed.	ns and containers: No special requirements. Imon storage facility:		
Store in cool, dry conditions in well seale	restricted to technical experts or their assistants.		
SECTION 8: Exposure controls/p Additional information about design of	•		
Properly operating chemical fume hood 8.1 Control parameters Components with critical values that	designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.		
<ul> <li>8.2 Exposure controls</li> <li>Personal protective equipment General 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 eyes and skin.</li> <li>Breathing equipment: Use breathing protection with high concentrations. Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. 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 quality and varies from manufacturer to manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) 480 Glove thickness 0.11 mm Eye protection: Tightly sealed safety glasses. Full face protection Body protection: Protective work clothing.</li> </ul>			
SECTION 9: Physical and chemic			
9.1 Information on basic physical and General Information Appearance: Form:	Crystalline		
Colour: Smell: Odour threshold:	White Odourless Not determined.		
pH-value (10 g/l) at 20 °C:	12		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Solf-inflammability:	ca 75 °C (dec) Not determined Not determined. Not determined Not determined		
Self-inflammability: Danger of explosion: Critical values for explosion: Lower:	Not determined. Not determined. Not determined		
Upper: Steam pressure: Density at 20 °C Relative density	Not determined Not applicable. 1,62 g/cm <sup>3</sup> Not determined.		
	(Contd. on page 3		

(Contd. on page 3) DE

	Revision: 23.01.20			
ade name Sodium phosphate dodecahydrate				
Venera density Networks	(Contd. of page			
Vapour density Not applicable. Evaporation rate Not applicable.				
Solubility in / Miscibility with Water at 20 °C: 258 g/l Partition coefficient (n-octanol/water): Not determined.				
Viscosity:				
dynamic:Not applicable.kinematic:Not applicable.9.2 Other informationNo further relevant inform	nation quailable			
<b>9.2 Other information</b> No further relevant infor				
SECTION 10: Stability and reactivity				
10.1 Reactivity No information known. 10.2 Chemical stability 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 Reacts with strong oxidising agents				
10.5 Incompatible materials: Acids Ovidising agents				
Oxidising agents 10.6 Hazardous decomposition products: Sodium oxide				
Phosphorus oxides (e.g. P2O5)				
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 esophagus and stomach. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.				
LD/LC50 values that are relevant for classification: Oral LD50 7400 mg/kg (rat)				
Skin irritation or corrosion: Causes severe skin burns.				
Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing effect known. Germ cell mutagenicity: No effects known				
Germ cell mutagenicity: 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 sýstem toxicitý - single exposure: No eff Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known.				
Additional toxicological information: To the best of our knowled	dge 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 No further relevant information available.				
12.4 Mobility in soil No further relevant information available. Additional ecological information:				
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 to reach ground water, water course 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-dangerou 12.5 Results of PBT and vPvB assessment				
PBT: Not applicable. vPvB: Not applicable. 12.6 Other adverse effects No further relevant information available.				
	ble.			
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 re	equilations			
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SECTION 14: Transport information UN-Number				
ADR, IMDG, IATA 14.2 UN proper shipping name	UN3262			
ADR	3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium phosphate dodecahydrate)			
IMDG, IATA	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium phosphate dodecahydrate)			
14.3 Transport hazard class(es)				
ADR				
(EX)				
Class	8 (C6) Corrosive substances.			
Label IMDG, IATA	8			
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Class	8 Corrosive substances.			
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## Trade name Sodium phosphate dodecahydrate

	(Contd. of page 3)
Label	8
Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Kemler Number: Segregation groups	Warning: Corrosive substances. 80 Alkalis
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IB Code	C Not applicable.
Transport/Additional information:	
ADR Excepted quantities (EQ): Limited quantities (LQ)	E1 5 kg
UN "Model Regulation":	UN3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium phosphate dodecahydrate), 8, III

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical 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. 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. Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. REACH - Pre-registered substances Substance is listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. **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: Global Marketing Department Department issuing SDS: Global Marketing Department Abreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of 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 EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent UD50: 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) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C

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