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

revised on: 25.07.2022

Version number 5

Creation Date: 08.10.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
· 1.1 Product identifier		
· Trade name: Disodium hydrogen phosphate dihydrate		
 Article number: 8622 CAS Number: 10028-24-7 EC number: 231-448-7 Registration number A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 UK REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline. 1.2 Relevant identified uses of the substance or mixture and uses advised against Life cycle stages F Formulation or re-packing IS Use at industrial Sites Application of the substance / the mixture Laboratory chemicals Reagent for analysis Industrial use 		
 • 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: Th. Geyer GmbH & Co. KG Dornierstr. 4 – 6 D-71272 Renningen 		
Tel.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417 www.thgeyer.de sicherheitsdatenblaetter@thgeyer.de		
· Further information obtainable from: Product management department		
 1.4 Emergency telephone number: National Poisons Information Service City Hospital Dudley Road Birmingham B18 7QH Tel.:Emergency: (00 44) 87 06 00 62 66 Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111 		
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, according to the GB CLP regulation.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008 Void

· Hazard pictograms Void

· Signal word Void

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- · Hazard statements Void
- 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 No. Description
- CAS: 10028-24-7 Disodium hydrogen phosphate dihydrate
- · Identification number(s)
- · EC number: 231-448-7

SECTION 4: First aid measures

· 4.1 Description of first aid measures General information: First aider needs to protect himself. Immediately remove any clothing soiled by the product. After inhalation: Supply fresh air. Seek medical treatment in case of complaints. After skin contact: Flush contaminated skijn with soap and plenty of water. After prolonged contact or any signs of skin changes (redness or other signs of inflammation) seek medical attention. Rinse skin with water. After eye contact: Protect unharmed eye. Rinse out opened eye for several minutes under running water. Remove contact lenses If symptoms occur or in case of doubt, seek medical advice. • After swallowing: Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor. Drink water and if symptoms persist consult doctor. · Information for doctor: Please observe safety data sheet/label. · 4.2 Most important symptoms and effects, both acute and delayed Cramp Coughing Nausea • 4.3 Indication of any immediate medical attention and special treatment needed Give Glucocorticoid-Aerosol in case of lung irritation. Symptomatic treatment.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

Carbon dioxide, powder, water spray or alcohol-resistant foam.

Use carbon dioxide, dry chemical, alcohol-resistant-foam or water spray.

Use extinguishing measures that are appropiate to local circumstances and the surrounding environment.

For safety reasons unsuitable extinguishing agents: Water with full jet.

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5.2 Special hazards arising from the substance or mixture	
Not combustible.	
Ambient fire may liberate hazardous vapours.	
In case of fire, the following can be released:	
Phosphorus oxides	
Fire may cause evolution of oxides of phosphorus and sodium oxides.	
5.3 Advice for firefighters	
· Protective equipment:	
Wear self-contained respiratory protective device.	
Do not inhale explosion gases or combustion gases.	
If necessary, wear self-contained breathing apparatus. Additional information 	
Dispose of fire debris and contaminated fire fighting water in accordance with official regulation Prevent fire extinguishing water from contaminating surface water or the ground water system.	
Prevent fire extinguishing water from contaminating surface water or the ground water system.	
SECTION 6: Accidental release measures	
• 6.1 Personal precautions, protective equipment and emergency procedures	
Ensure adequate ventilation.	
Avoid formation of dust.	
Avoid contact with eyes and skin.	
Do not inhale dust.	
Avoid dust formation and avoid inhalation of dusts/ gases/ fog. Evacuate the danger area, obse	erve emergency
procedures and consult experts.	
For non-end and the time of a firm of	
For personal protection: see Section 8.	
• 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.	
• 6.3 Methods and material for containment and cleaning up:	
Cover drains.	
Pick up mechanically. Dispose of the material collected according to regulations.	
Pick up mechanically, dispose of properly and clean up affected area. Avoid generation of dust	te.
· 6.4 Reference to other sections	15.
See Section 7 for information on safe handling.	
See Section 7 for information on personal protection equipment.	
See Section 3 for disposal information.	
SECTION 7: Handling and storage	
· 7.1 Precautions for safe handling	
Store in cool, dry place in tightly closed receptacles.	
Keep away from heat and direct sunlight.	
Apply the general protection and hygiene measures for the handling with chemicals.	
No special measures required.	
The product should be handled with the usual care when dealing with chemicals.	
Provide appropiate exhaust ventilation at places where dust is formed. Avoid contact with the eyes and the skin.	
Change contaminated clothes. Wash hands before break and after working with the substance	<u>`</u>
Do not eat and drink while working.	<i>.</i> .
Keept it away from food, drinks and feed.	
· Information about fire - and explosion protection:	
Substance itself does not burn, tuning measures to environment	
7.2 Conditions for safe storage, including any incompatibilities	
Storage:	
Requirements to be met by storerooms and receptacles:	
Store only in the original receptacle.	(Control on the second
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Tightly closed in a cool and dry place.

· Information about storage in one common storage facility: Store away from water.

Further information about storage conditions:

Protect from humidity and water.

Store in dry conditions.

• Storage class: 13

• 7.3 Specific end use(s) Apart from the uses mentioned in Section 1.2. no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Additional information about design of technical facilities: No further data; see item 7.

- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection:
- Not required.

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Labsolute®protective

Material of gloves

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.

NBR: acrylonitrile-butadiene rubber

Material thickness > 0.11 mm

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- level 6 for application > 480 min
- Eye protection:

Recommendation: Wear tightly fitting safety goggles



Safety glasses

Safety glasses. Body protection:



Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

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9.1 Information on basic physical and	chemical properties		
· General Information			
Appearance:			
Form:	Solid		
Colour:	White		
Odour:	Odourless		
pH-value:	8.7–9.3		
Change in condition			
Melting point/freezing point:	92.5 °C (dec)		
Initial boiling point and boiling range	: Undetermined.		
Flash point:	Not applicable.		
Flammability (solid, gas):	Product is not flammable.		
Decomposition temperature:	92.5 °C (dec)		
Auto-ignition temperature:	Not determined.		
Explosive properties:	Product does not present an explosion hazard.		
Explosion limits:			
Lower:	Not determined.		
Upper:	Not determined.		
Vapour pressure:	Not applicable.		
Density at 20 °C:	2.07 g/cm ³		
	Not determined.		
Relative density	Not determined.		
Vapour density	Not applicable.		
Evaporation rate	Not applicable.		
Solubility in / Miscibility with			
water at 20 °C:	93 g/l		
Partition coefficient: n-octanol/water:	Not determined.		
Viscosity:			
Dynamic:	Not applicable.		
Kinematic:	Not applicable.		

SECTION 10: Stability and reactivity

10.1 Reactivity See Section 10.3.
10.2 Chemical stability
Stable with proper storage and handling.
Stabel und recommended storage conditions.
realeses water of crystallisation when heated.

Thermal decomposition / conditions to be avoided: Thermal decomposition on losing water.
10.3 Possibility of hazardous reactions
Reacts with acids.
Reacts with oxidising agents.

10.4 Conditions to avoid
Protect from humidity.
Heat, flames and sparks
See Section 7.

10.5 Incompatible materials: Avoid contact with other chemicals.

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· 10.6 Hazardous decomposition products:

On fire: see chapter 5

In the vent of fire: See Section 5.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Dermal LD50 12,900 mg/kg (rat)

- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information:

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

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:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods Observe local (country-specific) regulations and laws
- Recommendation
- Smaller quantities can be disposed of with household waste.

Chemicals must be disposed of in compliance with the respective national regulations.

Disposal muste be made according to official regulations.

· European waste catalogue			
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST		
16 05 00	gases in pressure containers and discarded chemicals		

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

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· Uncleaned packaging:

• **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information		
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	not regulated	
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	not regulated	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	not regulated	
 14.4 Packing group ADR, IMDG, IATA 	not regulated	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
 14.7 Transport in bulk according to Anno Marpol and the IBC Code 	ex II of Not applicable.	
· UN "Model Regulation":	not regulated	

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture • Inventory of Hazardous Chemicals Substance is not listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II
- Substance is not listed. • REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.

- · Regulation (EC) No 273/2004 on drug precursors Substance is not listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

- · National regulations:
- · Information about limitation of use:
- Employment restrictions concerning juveniles must be observed.
- Employment restrictions concerning pregnant and lactating women must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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(Contd. of page 7 Application, use and handling of our products take place out of our control and are solely your responsibility.
· Department issuing SDS: Product management
Contact: Product management
· Abbreviations and acronyms:
ADR: Accord relatif au transport international 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 Harmonised 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
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
* * Data compared to the previous version altered.