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SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1. Product i				
Product form Substance name EC-No. CAS-No. Type of product Formula Chemical structure	: S : d : 2 : 1 : F	Substance di-Sodium hydrogen phosphate dod 231-448-7 10039-32-4 Pure substance Na2HPO4.12H2O Na2HPO4.12H2O HO-P-ONa •12H ₂ O ONa	ecahydrate	
c c ((P s s c d n n		disodium hydrogen phosphate, 12-hydrate / di-sodium hydrogen phosphate, dodecahydrate / disodium phosphate, 12-hydrate / disodiummonohydrogenphosphate, dodecahydrate / disodiumorthophosphate, dodecahydrate / disodiumphosphate, dodecahydrate / DSP (=disodium phosphate), dodecahydrate / phosphoric acid, disodium salt, 12-hydrate / phosphoric acid, disodium salt, dodecahydrate / secondary-sodium phosphate, dodecahydrate / sec-sodium phosphate, dodecahydrate / sodium hydrogen orthophosphate, dodecahydrate / sodium monohydrogen orthophosphate, dodecahydrate / sodium monohydrogen phosphate, dodecahydrate / sodium orthophosphate, dibasic, dodecahydrate / sodium orthophosphate, mono-H, dodecahydrate / sodium phosphate, dibasic, 12-hydrate / sodium phosphate, dibasic, dodecahydrate		
1.2. Relevant	identified uses of the substance	e or mixture and uses advised ag	ainst	
	identified uses			
Use of the substanc	e/mixture : F	Food industry: additive aboratory chemical		
1.2.2. Uses adv	ised against			
	No additional information available			
1.3. Details of the supplier of the safety data sheet				
ISOLAB GmbH Bahnhofstrasse 10, D-97877 Wertheim - Germany T +49 93 42 912 355 - F +49 93 42 912 357 prodsafe@isolab.de				
1.4. Emergen	cy telephone number			
Country	Organisation/Company	Address	Emergency number	Comment

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 30 19240	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Name	Product identifier	%
di-Sodium hydrogen phosphate dodecahydrate	(CAS-No.) 10039-32-4 (EC-No.) 231-448-7	100

Full text of H-statements: see section 16

3.2. **Mixtures** Not applicable

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.		
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.		
First-aid measures after skin contact	: Rinse with water. Remove clothing before washing. Take victim to a doctor if irritation persists.		
First-aid measures after eye contact	: Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.		
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.		
4.2. Most important symptoms and effe	cts, both acute and delayed		
Symptoms/effects after skin contact	: Slight irritation.		
Symptoms/effects after eye contact	: Slight irritation.		
Symptoms/effects after ingestion	: AFTER ABSORPTION OF HIGH QUANTITIES: Gastrointestinal complaints.		
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin.		
4.3. Indication of any immediate medica	al attention and special treatment needed		
No additional information available			

SECTION 5: Fire-fighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Adapt extinguishing media to the environment.		
Unsuitable extinguishing media	: No unsuitable extinguishing media known.		
5.2. Special hazards arising fro	om the substance or mixture		
Fire hazard	: DIRECT FIRE HAZARD. No fire hazard. INDIRECT FIRE HAZARD. No fire hazard.		
Explosion hazard	: DIRECT EXPLOSION HAZARD. Not applicable. INDIRECT EXPLOSION HAZARD. Not applicable.		
5.3. Advice for firefighters			
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.		
Firefighting instructions	: Dilute toxic gases with water spray.		
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.		
SECTION 6: Accidental release measures			
6.1. Personal precautions, prot	6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Drotostivo oquipmont	· Clayer, Protective electrical Dust clayer production: compressed air/ovygen apparetus. See		

Protective equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.
Emergency procedures	: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.
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Measur	es in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.
6.1.2.	For emergency responders	
No add	itional information available	
6.2.	Environmental precautions	
No add	itional information available	
6.3.	Methods and material for containm	ent and cleaning up
For cor	tainment	: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.
Method	s for cleaning up	: Stop dust cloud by humidifying. Scoop solid spill into closing containers. See "Material- handling" for suitable container materials. Wash clothing and equipment after handling.
6.4.	Reference to other sections	
No add	itional information available	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	tions for safe handling	: Comply with the legal requirements. Thoroughly clean/dry the installation before use. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
7.2.	Conditions for safe storage, includ	ng any incompatibilities
Heat ar	nd ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources.
Information on mixed storage :		: KEEP SUBSTANCE AWAY FROM: (strong) acids.
Storage area :		: Store at ambient temperature. Store in a dry area. Keep container in a well-ventilated place. Meet the legal requirements.
Special rules on packaging :		: SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials :		: SUITABLE MATERIAL: paper. textile. polyethylene. cardboard. synthetic material. MATERIAL TO AVOID: aluminium.
= -		

7.3. Specific end use(s)

No additional information available

SECT	FION 8: Exposure controls/personal protection	
8.1.	Control parameters	

No additional information available

8.2. Exposure controls

Materials for protective clothing:

GIVE GOOD RESISTANCE: neoprene. PVC

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles

Skin and body protection:

Protective clothing

Respiratory protection:

Dust production: dust mask with filter type P1

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

: Solid

Physical state

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Appearance	: Crystalline solid. Powder. Grains.
Molecular mass	: 358.14 g/mol
Colour	: Colourless to white.
Odour	: Odourless.
Odour threshold	: No data available
рН	: 9.0 - 9.3 (50 g/l, H ₂ O, 20 °C)
pH solution	: 5%
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 35 °C
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 35 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.5
Density	: 1520 kg/m³
Solubility	: Soluble in water. Water: 21.8 g/100ml (20°C)
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
Minimum ignition energy	: Not applicable
VOC content	: 0%
Other properties	: Translucent. Substance has basic reaction.

SECTI	ON 10: Stability and reactivity		
10.1.	Reactivity		
On burn	ing: release of toxic and corrosive gases/vapours (phosphorus oxides). Reacts with (some) acids.		
10.2.	Chemical stability		
Stable u	nder normal conditions.		
10.3.	Possibility of hazardous reactions		
No addit	ional information available		
10.4.	Conditions to avoid		
No addit	No additional information available		
10.5.	Incompatible materials		
No additional information available			
10.6.	Hazardous decomposition products		
No addit	No additional information available		
SECTI	SECTION 11: Toxicological information		

I	SECTION 11: Toxicological information		
	11.1. Information on toxicological effects		
	Acute toxicity :	Not classified	
di-Sodium hydrogen phosphate dodecahydrate (10039-32-4)			
	LD50 oral rat	> 2000 mg/kg (Rat)	
	LD50 dermal rat	> 2000 mg/kg (Rat)	
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Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	pH: 9 (1 %) : Not classified
	pH: 9 (1 %)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological informatio	n
12.1. Toxicity	
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft Klasse 5.2.1.
Ecology - water	 Mild water pollutant (surface water). Maximum concentration in drinking water: 200 mg/l (sodium) (Directive 98/83/EC). Not harmful to fishes. Slightly harmful to invertebrates (EC50: 100 - 1000 mg/l). May cause eutrophication. Slightly harmful to bacteria. pH shift.
di-Sodium hydrogen phosphate dodecahy	drate (10039-32-4)
LOFO fish 4	

di-Sodidin nydrogen phosphate dodecanydrate (10039-52-4)	
LC50 fish 1	> 2400 mg/l (LC50; 48 h)
EC50 Daphnia 1	126 ppm (TLm; 72 h)

12.2. Persistence and degradability

· · · · · · · · · · · · · · · · · · ·	
di-Sodium hydrogen phosphate dodecahydr	ate (10039-32-4)
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
12.3. Bioaccumulative potential	
di-Sodium hydrogen phosphate dodecahydr	rate (10039-32-4)
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	nt
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Precipitate/make insoluble. Remove to an authorized dump (Class I). Do not discharge into surface water.
Additional information	: Can be considered as non hazardous waste according to Directive 2008/98/EC.
European List of Waste (LoW) code	: 06 03 14 - solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
SECTION 14: Transport information	

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN	RID	
14.2. UN proper shippi	14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard	14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary information available					

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1.	Safety, health and environmental re	gulations/legislation s	pecific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

di-Sodium hydrogen phosphate dodecahydrate is not on the REACH Candidate List di-Sodium hydrogen phosphate dodecahydrate is not on the REACH Annex XIV List

VOC content

: 0%

15.1.2. National regulations

Germany

VwVwS Annex reference	: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 330)
WGK remark	 Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 2)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed

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 NIET-limitatieve lijst van voor de voortplanting
 : The substance is not listed

 giftige stoffen – Vruchtbaarheid
 : The substance is not listed

 NIET-limitatieve lijst van voor de voortplanting
 : The substance is not listed

 giftige stoffen – Ontwikkeling
 : The substance is not listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations a	and acronyms:
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

SDS ISOLAB

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product