

According to SANS 10234:2019 and SANS 11014:2010 Revision date: 01/07/2025

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Version: 1.0

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SECTION 1: Identification				
1.1. Product identifier				
Trade name	: SOD	IUM DIHYDROGEN ORTHOPHOSPHAT	⊺E anhy	
IUPAC name	: sodiu	ım dihydrogenorthophosphate		
EC-No.	: 231-4	149-2		
CAS-No.	: 7558	-80-7		
Product code		30xxx		
Formula	: NaH2			
1.2. Relevant identified uses of the sub- Recommended uses and restrictions		aboratory use only		
	. 1016	aboratory use only		
1.3. Supplier's details				
Labchem (Pty)Ltd 6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.co.za				
1.4. Emergency telephone number				
Emergency number	: +27 ?	11 452 1116		
SECTION 2: Hazards identification				
2.1. Classification of the substance or r	nixture			
Classification according to the United Nation	IN CHS			
Hazardous to the aquatic environment - Acute Hazard Not classified Full text of H statements : see section 16	15 0110			
2.2. Label elements				
Labelling according to the United Nations Gl No labelling applicable	HS			
2.3. Other hazards				
Adverse physicochemical, human health and environmental effects		ur knowledge, this product does not prese rdance with good occupational hygiene a		
SECTION 3: Composition/information	on on in	gredients		
3.1. Substances		.		
IUPAC name	· sodiu	m dihydrogenorthophosphate		
Substance identification codes: See section 1.1				
Name		Product identifier	%	Classification according to the United Nations GHS
Monosodium phosphate (Main constituent)		(CAS-No.) 7558-80-7	≥ 98	Aquatic Acute Not classified
3.2. Mixtures			·	ı
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures after inhalation	: Rem	ove person to fresh air and keep comfort	able for breathin	q.
First-aid measures after skin contact		n skin with plenty of water.		-
First-aid measures after eye contact		e eyes with water as a precaution.		
First-aid measures after ingestion		a poison center or a doctor if you feel unv	vell	
-			YOII.	
4.2. Most important symptoms and effe	cts, both	acute and delayed		
No additional information available				
4.3. Indication of any immediate medica	al attentio	n and special treatment needed		
Treat symptomatically.				

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Special hazards arising from the sub	stance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
No additional information available	
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containmen	
Methods for cleaning up	: Mechanically recover the product.
Other information	: Dispose of materials or solid residues at an authorized site.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	
Storage conditions	: Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/perso	nal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measures, such	as personal protective equipment (PPE)
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Dust production: dust mask with filter type P1
Personal protective equipment symbol(s):	· ····································
8.4. Exposure limit values for the other co	omponents
No additional information available	
SECTION 9: Physical and chemical p	roperties
9.1. Information on basic physical and ch	emical properties
Physical state	: Solid
Appearance	· No data available

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Odour	: No data available
Odour threshold	: No data available
	: No data available
pH pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
, , ,	: No data available
Relative evaporation rate (ether=1) Melting point	$\sim 449.85 ^{\circ}\text{C}$
Freezing point Boiling point	: Not applicable : No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	Non flammable.
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 2.36 Type: 'relative density' Temp.: 20,5 °C
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: 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	: Not applicable
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available

9.2. Other information

No additional	mormation	avaliable	

SECT	ION 10: Stability and reactivity		
10.1.	Reactivity		
The pro	The product is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable u	inder normal conditions.		
10.3.	Possibility of hazardous reactions		
No dang	gerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
None ur	nder recommended storage and handling conditions (see section 7).		
10.5.	Incompatible materials		
No addi	tional information available		
10.6.	Hazardous decomposition products		
Under n	ormal conditions of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: Toxicological information			
11.1.	Information on toxicological effects		

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Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
SODIUM DIHYDROGEN ORTHOPHOS	SPHATE anhy (7558-80-7)
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)

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SODIUM DIHYDROGEN ORTHOPHOSPHATE anhy (7558-80-7)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))	
LC50 inhalation rat (mg/l)	> 0.83 mg/l air Animal: rat, Guideline: EPA OPP 81-3 (Acute inhalation toxicity), Guideline: other:U.S. Environmental Protection Agency Toxic Substances Health Effects Test Guidelines, October 1984 (PB82-232984) Acute Inhalation Toxicity Study, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: other:FMC Acute Inhalation Toxicity Protocol Number 27	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
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	
SODIUM DIHYDROGEN ORTHOPHOSPHATE	anhy (7558-80-7)	
NOAEL (subchronic, oral, animal/male, 90 days)	322.88 mg/kg bodyweight Animal: dog, Animal sex: male	
NOAEL (subchronic, oral, animal/female, 90 days)	492.77 mg/kg bodyweight Animal: dog, Animal sex: female	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
SODIUM DIHYDROGEN ORTHOPHOSPHATE	anhy (7558-80-7)
LC50 fish 1	> 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 Daphnia 1	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	 > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
12.2. Persistence and degradability	
SODIUM DIHYDROGEN ORTHOPHOSPHATE	anhy (7558-80-7)
Persistence and degradability	No additional information available
12.3. Bioaccumulative potential	
SODIUM DIHYDROGEN ORTHOPHOSPHATE	anhy (7558-80-7)
Bioaccumulative potential	No additional information available
12.4. Mobility in soil	
SODIUM DIHYDROGEN ORTHOPHOSPHATE	anhy (7558-80-7)
Mobility in soil	No additional information available
12.5. Other adverse effects	
Ozone	: Not classified
Other adverse effects	: No additional information available
SECTION 13: Disposal consideration	S
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information	
In accordance with SANS / IMDG / IATA	

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SANS	IMDG	IATA	
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	
14.4. Packing group			
Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards			
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No	
	:		
No supplementary information available			

14.6. Special precautions for user

- SANS

No data available

- IMDG

No data available

- IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information	1 ational regulations specific for the product
Regulatory reference: SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; Nationa Road Traffic Act 93 of 1996.	
SECTION 16: Other information	
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SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.