

According to SANS 10234:2008 and SANS 11014:2010 Issue date:10/03/2020 Revision date: 10/03/2025

Version: 1.0

	00,00,202			
SECTION 1: Identification				
1.1. Product identifier				
Trade name	: DIPO	TASSIUM HYDROGEN ORTHOPHOS	PHATE	
IUPAC name		ssium hydrogenorthophosphate		
EC-No.	: 231-8			
CAS-No.	: 7758-			
Product code	: 11613			
Formula	: K2HP	04		
1.2. Relevant identified uses of the subs	tance or I	mixture and uses advised against		
Recommended uses and restrictions	: For la	boratory 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 1	1 452 1116		
SECTION 2: Horardo identification				
SECTION 2: Hazards identification	iv(ure			
2.1. Classification of the substance or n				
Classification according to the United Nation	s GHS			
Hazardous to the aquatic environment -				
Acute Hazard Not classified Full text of H statements : see section 16				
2.2. Label elements				
Labelling according to the United Nations GH	IS			
No labelling applicable				
2.3. Other hazards				
Adverse physicochemical, human health and		r knowledge, this product does not pres		
environmental effects	accord	dance with good occupational hygiene	and safety practi	ce
SECTION 3: Composition/information	n on ind	predients		
3.1. Substances		greatents		
	· dinoto	anium hydrogonorthanhaanhata		
IUPAC name	. dipota	ssium hydrogenorthophosphate		
Substance identification codes: See section 1.1				
Name		Product identifier	%	Classification according to the United Nations GHS
dipotassium hydrogenorthophosphate (Main constituent)		(CAS-No.) 7758-11-4	≥ 98	Aquatic Acute Not classified
3.2. Mixtures				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures after inhalation	· Remo	ve person to fresh air and keep comfor	table for breathir	20
First-aid measures after skin contact				·g.
		skin with plenty of water.		
First-aid measures after eye contact		eyes with water as a precaution.		
First-aid measures after ingestion	: Call a	poison center or a doctor if you feel ur	iwell.	
4.2. Most important symptoms and effective	cts, both a	icute and delayed		
No additional information available				
4.3. Indication of any immediate medica	l attentior	and special treatment needed		
Treat symptomatically.				

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

SECTION 5: Eirofighting massures	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	Water entry Dry neuron Feam
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Special hazards arising from the su	
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 mea	asures
6.1. Personal precautions, protective e	quipment 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 containm	
Methods for cleaning up	: Mechanically recover the product.
Other information	: Dispose of materials or solid residues at an authorized site.
SECTION 7. Handling and storege	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
	: Ensure good ventilation of the work station. Wear personal protective equipment.
7.1. Precautions for safe handling	 Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.1. Precautions for safe handling Precautions for safe handling	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, include Storage conditions 	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Ing any incompatibilities Store in a well-ventilated place. Keep cool.
 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, include 	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Ing any incompatibilities Store in a well-ventilated place. Keep cool.
7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, includ Storage conditions SECTION 8: Exposure controls/pers	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Ing any incompatibilities Store in a well-ventilated place. Keep cool.
7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, include Storage conditions Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters Control parameters	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Ing any incompatibilities Store in a well-ventilated place. Keep cool.
7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, include Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Ing any incompatibilities Store in a well-ventilated place. Keep cool.
7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, include Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available 8.2. Appropriate engineering controls	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. ling any incompatibilities Store in a well-ventilated place. Keep cool. sonal protection
 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, include Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Ing any incompatibilities Store in a well-ventilated place. Keep cool. sonal protection Ensure good ventilation of the work station.
 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, include Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. ling any incompatibilities Store in a well-ventilated place. Keep cool. sonal protection Ensure good ventilation of the work station. Avoid release to the environment.
 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, include Storage conditions SECTION 8: Exposure controls/personal 8.1. Control parameters No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures, sures 	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Ing any incompatibilities Store in a well-ventilated place. Keep cool. sonal protection Ensure good ventilation of the work station. Avoid release to the environment. ich as personal protective equipment (PPE)
 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, include Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures, sur Hand protection 	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. ling any incompatibilities Store in a well-ventilated place. Keep cool. sonal protection Ensure good ventilation of the work station. Avoid release to the environment. tch as personal protective equipment (PPE) Protective gloves
 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, include Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures, sur Hand protection Eye protection 	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Ing any incompatibilities Store in a well-ventilated place. Keep cool. sonal protection Ensure good ventilation of the work station. Avoid release to the environment. ich as personal protective equipment (PPE) Protective gloves Safety glasses
 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, include Storage conditions SECTION 8: Exposure controls/pers 8.1. Control parameters No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures, sur Hand protection Eye protection Skin and body protection 	 Do not eat, drink or smoke when using this product. Always wash hands after handling the product. ing any incompatibilities Store in a well-ventilated place. Keep cool. sonal protection Ensure good ventilation of the work station. Avoid release to the environment. ch as personal protective equipment (PPE) Protective gloves Safety glasses Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: dust



8.4.	Exposure limit values for the other of	omponents	
No additi	onal information available		
SECTIO	ON 9: Physical and chemical p	roperties	
9.1.	Information on basic physical and c	nemical properties	
Physical	state	: Solid	
Appearar	nce	: Powder.	

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

According to SANS 10234:2008 and SANS 11014:2010	
Molecular mass	: 174.176 g/mol
Colour	: white.
Odour	: Odourless.
Odour threshold	: No data available
pH	: No data available
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: > 449.85 °C Decomposition: 'no' Sublimation: 'no'
Freezing point	: Not applicable
Boiling point	: 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	: 2.45 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	: Water: 149.25 g/100ml (at 20°C)
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 information available

No audi	
SECT	ON 10: Stability and reactivity
10.1.	Reactivity
The pro	duct 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	perous 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.
SECT	ON 11: Toxicological information
11.1.	Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

DIPOTASSIUM HYDROGEN ORTHOPHOSPHATE (7758-11-4)		
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) 	
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	
DIPOTASSIUM HYDROGEN ORTHOPHOSPH	ATE (7758-11-4)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
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
DIPOTASSIUM HYDROGEN ORTHOPHOSPHA	NTE (7758-11-4)
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	
DIPOTASSIUM HYDROGEN ORTHOPHOSPHA	NTE (7758-11-4)
Persistence and degradability	No additional information available
12.3. Bioaccumulative potential	
DIPOTASSIUM HYDROGEN ORTHOPHOSPHA	NTE (7758-11-4)
Bioaccumulative potential	No additional information available
12.4. Mobility in soil	
DIPOTASSIUM HYDROGEN ORTHOPHOSPHA	TE (7758-11-4)
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 considerations	
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

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

SANS	IMDG	ΙΑΤΑ
	IMDG	
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 15.1. Safety, health, and environmental na	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; National Road Traffic Act 93 of 1996.
SECTION 16: Other information	
Issue date	: 10/03/2020
Revision date	: 10/03/2025

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.