

Tetra Potassium Phosphate

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only.

#### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:	Tetra Potassium Pyrophosphate
CAS:	7320-34-5
Other means of identification:	Non-applicable
Relevant identified uses of the s	ubstance or mixture and uses advised against:
Relevant uses:	Chemical industry. For professional users/industrial user
Company name:	Nexchem Ltd
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	Leycroft Road
	Leicester
	LE4 1ET
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	24/7 Emergency Tel: 0800 246 1274
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#### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture:

GB CLP Regulation:Classification of this product has been carried out in accordance with GB CLP Regulation.Eye Irrit. 2: Eye irritation, Category 2, H319

Label elements: GB CLP Regulation:



Hazard statements:	
Eye Irrit. 2:	H319 - Causes serious eye irritation.
Precautionary statements:	P264: Wash thoroughly after use.
	P280: Wear protective gloves/protective clothing/respiratory protection/eye
	protection/protective footwear.
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P337+P313: If eye irritation persists: Get medical advice/attention.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Substance:

#### Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 7320-34-5	Tetra Potassium pyrophosphate	75 - <100 %
	Eye Irrit. 2: H319 - Warning	

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

#### Mixture:

Non-applicable.

#### 4. FIRST AID MEASURES

<b>Description of first aid measures:</b> The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.				
By inhalation:	This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.			
By skin contact:	In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters), seek medical advice with this Safety Data Sheet.			
By eye contact:	Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.			
By ingestion/aspiration:	In case of consumption, seek immediate medical assistance showing the SDS for the product.			
Most important symptoms and effects, both acute and delayed: Acute and delayed effects are indicated in sections 2 and 11.				

Indication of any immediate medical attention and special treatment needed: Non-applicable.

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# **5. FIRE-FIGHTING MEASURES**

Extinguishing media:	
Suitable extinguishing media:	Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.
Unsuitable extinguishing media:	Non-applicable.
Special hazards arising from the	substance or mixture:
	As a result of combustion or thermal decomposition reactive sub-products are created that can
	become highly toxic and, consequently, can present a serious health risk.
Advice for firefighters:	Depending on the magnitude of the fire it may be necessary to use full protective clothing and
	self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment
	should be available (fire blankets, portable first aid kit).
Additional provisions:	Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to
	take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire,
	cool the storage containers and tanks for products susceptible to combustion, explosion or
	BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the
	fire into an aqueous medium.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:					
For non-emergency personnel:	Sweep up and shovel product or collect by other means and place in container for reuse				
	(preferred) or disposal.				
For emergency responders:	Wear protective equipment. Keep unprotected persons away. See section 8.				
Environmental precautions:	This product is not classified as hazardous to the environment. Keep product away from drains,				
	surface and ground water.				
Methods and material for contain	ment and cleaning up:				
It is recommended:	Sweep up and shovel product or collect by other means and place in container for reuse				
	(preferred) or disposal.				
Reference to other sections:	See sections 8 and 13.				

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# 7. HANDLING AND STORAGE

#### Precautions for safe handling:

A.- General precautions for safe use: Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

#### B.- Technical recommendations for the prevention of fires and explosions:

Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

#### C.- Technical recommendations on general occupational hygiene:

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

#### D.- Technical recommendations to prevent environmental risks:

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

#### Conditions for safe storage, including any incompatibilities:

A	Technical	measures	for	storage:

Minimum Temp.:	2 ºC
Maximum Temp.:	35 ⁰C
Maximum time:	24 Months

B General conditions for storage: Avoid sources of heat, radiation, static electricity and contact with food	J.
For additional information see subsection 10.5	

Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace:

Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3

#### DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Tetra Potassium pyrophosphate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7320-34-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 230-785-7	Inhalation	Non-applicable	Non-applicable	17.63 mg/m³	Non-applicable

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#### **DNEL (General population):**

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Tetra Potassium pyrophosphate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7320-34-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 230-785-7	Inhalation	Non-applicable	Non-applicable	4.35 mg/m <sup>3</sup>	Non-applicable

PNEC:

Non-applicable.

#### **Exposure controls:**

#### A.- Individual protection measures, such as personal protective equipment:

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection), consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B Res	spiratory	protection:
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Pictogram	PPE	Remarks
Compulsory use of face mask	Filter mask for particles	Replace when an increase in resistance to
		breathing is observed.



#### C.- Specific protection for the hands:

Pictogram Mandatory hand protection

PPE Protective gloves against minor risks

#### Remarks

Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+ A1:2018

11/2/	

D.- Eye and face protection: Pictogram Mandatory face protection



PPE Panoramic glasses against splash/ projections.

#### Remarks

Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

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# E.- Body protection:

Pictogram

PPE	Remarks
Work clothing	Replace before any evidence of deterioration. For
	periods of prolonged exposure to the product for
	professional/industrial users CE III is
	recommended, in accordance with the regulations
	in EN ISO 6529:2013, EN ISO 6530:2005, EN
	ISO 13688:2013, EN 464:1994.
Anti-slip work shoes	Replace before any evidence of deterioration. For
	periods of prolonged exposure to the product for
	professional/industrial users CE III is
	recommended, in accordance with the regulations

#### F.- Additional emergency measures:

Emergency measure

Emergency shower



ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011

Standards



Standards

in EN ISO 20345:2012 y EN 13832-1:2007.

DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 Page 6

Environmental exposure controls: In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties:** For complete information see the product datasheet. **Appearance:** 

Physical state at 20 ºC:	Solid
Appearance:	Powdery
Colour:	White
Odour:	Odourless
Odour threshold:	Non-applicable *

#### Volatility:

Boiling point at atmospheric pressure: Non-applicable *				
Vapour pressure at 20 ºC:	Non-applicable *			
Vapour pressure at 50 °C:	Non-applicable *			
Evaporation rate at 20 °C:	Non-applicable *			

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2230 kg/m³
2.23
Non-applicable *
ater 20 °C: Non-applicable *
>750 kg/m³
Highly water-soluble
Non-applicable *
1100 °C
Non-applicable
Non-applicable *
Non-applicable *
Non-applicable *
Non-applicable *
Non-applicable *
Non-applicable *
Νοη-αμμικαρίε
Non-applicable *
cal hazard classes:
Non-applicable *
Non-applicable *
Non-applicable *
Non-applicable *
ass) of flammable components: Non-applicable *
he product, not providing information property of its hazards.
Non-applicable *

Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *
*Not relevant due to the nature of the	ne product, not providing information property of its hazards.

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# **10. STABILITY AND REACTIVITY**

Reactivity:		No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.			
Chemical stability:	Chemic	Chemically stable under the indicated conditions of storage, handling and use.			
<b>Possibility of hazardous reactions:</b> Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.					
Conditions to avoid:	and storage at re	com tomporaturo.			
Applicable for handling		-		•	
Shock and friction	Contact with ai	r Increase in te	mperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable		Not applicable	Not applicable
Incompatible materials	:				
Acids	Water	Oxidising materials	Combustible m	aterials Oth	ners
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avo	oid alkalis or strong bases
Hazardous decomposition products:					
	See su	bsection 10.3, 10.4 and 1	0.5 to find out the sp	ecific decomposi	tion products. Depending
	on the	decomposition conditions,	, complex mixtures o	of chemical substa	ances can be released:
		dioxide ( $CO_2$ ), carbon mo	•		
	Carbon				

#### **11. TOXICOLOGICAL INFORMATION**

#### Information on toxicological effects:

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):	Acute toxicity: Based on available data, the classification criteria are not met, as it does not
	contain substances classified as hazardous for consumption. For more information see section
	3.
	Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does
	not contain substances classified as hazardous for this effect. For more information see section
	3.
B- Inhalation (acute effect):	Acute toxicity: Based on available data, the classification criteria are not met, as it does not
	contain substances classified as hazardous for inhalation. For more information see section 3.
	Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does
	not contain substances classified as hazardous for this effect. For more information see section
	3.

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#### C- Contact with the skin and the eyes (acute effect):

Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for skin contact. For more information see section 3.

Contact with the eyes: Produces eye damage after contact.

#### D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

IARC: Non-applicable.

Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

# E-Sensitizing effects: Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3. Skin: Based on available data, the classification criteria are not met, as it does not contain

skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### G- Specific target organ toxicity (STOT)-repeated exposure:

	Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the		
	classification criteria are not met, as it does not contain substances classified as hazardous for		
	this effect. For more information see section 3.		
	Skin: Based on available data, the classification criteria are not met, as it does not contain		
	substances classified as hazardous for this effect. For more information see section 3.		
H- Aspiration hazard:	Based on available data, the classification criteria are not met, as it does not contain		
	substances classified as hazardous for this effect. For more information see section 3.		
Other information:	Non-applicable.		
Product-specific toxicological information:			

Acute toxicityGenusLD50 dermal4640 mg/kgRabbit

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#### Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Tetra Potassium pyrophosphate	LD50 oral	>5000 mg/kg	
CAS: 7320-34-5	LD50 dermal	4640 mg/kg	Rabbit
	LC50 inhalation	>5 mg/L	

#### **12. ECOLOGICAL INFORMATION**

Contains phosphates. Excessive discharge may cause eutrophication.Toxicity:Not available.Persistence and degradability:Not available.Bioaccumulative potential:Not available.Mobility in soil:Not available.Results of PBT and vPvB assessment:Product fails to meet PBT/vPvB criteria.Other adverse effects:Not described.

#### **13. DISPOSAL CONSIDERATIONS**

# Waste treatment methods: Maste class Code Description Waste class It is not possible to assign a specific code, as it depends on the intended use by the user Dangerous Type of waste: HP4 Irritant — skin irritation and eye damage. Vessee management (disposal and evaluation): Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:** In accordance with Annex II of UK REACH the provisions related to waste management are stated: UK legislation: The Waste Regulations 2011.

#### **14. TRANSPORT INFORMATION**

Transport of dangerous goods by land:		
With regard to ADR 2021 and RI		
UN number:	Non-applicable	
UN proper shipping name:	Non-applicable	
Transport hazard class(es):	Non-applicable	
Labels:	Non-applicable	
Packing group:	Non-applicable	
Environmental hazards:	No	
Special precautions for user:	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	See section 9

Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable

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Transport of dangerous goods by sea:			
With regard to IMDG 40-20:			
UN number:	Non-applicable		
UN proper shipping name:	Non-applicable		
Transport hazard class(es):	Non-applicable		
Labels:	Non-applicable		
Packing group:	Non-applicable		
Marine pollutant:	No		
Special precautions for user:	Special regulations:	Non-applicable	
	EmS Codes:		
Physico-Chemical properties:	See section 9		
Limited quantities:	Non-applicable		
Segregation group:	Non-applicable		
Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable			
Transport of dangerous goods by air:			

With regard to IATA/ICAO 2022:		
UN number:	Non-applicable	
UN proper shipping name:	Non-applicable	
Transport hazard class(es):	Non-applicable	
Labels:	Non-applicable	
Packing group:	Non-applicable	
Environmental hazards:	No	
Special precautions for user:	Physico-Chemical properties:	See section 9
Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable		

#### **15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture: Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable.

Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable.

The Control of Major Accident Hazards Regulations 2015: Non-applicable.

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH):		
Non-applicable.		

Note:

The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

# **16. OTHER INFORMATION**

Abbreviations and acronyms:	ADR: European agreement concerning the international carriage of dangerous goods by road.
	IMDG: International maritime dangerous goods code.
	IATA: International Air Transport Association.
	ICAO: International Civil Aviation Organisation.
	COD: Chemical Oxygen Demand.
	BOD5: 5day biochemical oxygen demand.
	BCF: Bioconcentration factor.
	LD50: Lethal Dose 50.
	LC50: Lethal Concentration 50.
	EC50: Effective concentration 50.
	LogPOW: Octanolwater partition coefficient.
	Koc: Partition coefficient of organic carbon.
	UFI: unique formula identifier.
	IARC: International Agency for Research on Cancer.
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