# **Safety Data Sheet**



29 CFR 1910.1200 App D

# КТРР

Version number: 1.0

#### **SECTION 1: Identification**

**CAS number** 

1.1 Product identifier

Identification of the substance Trade name

pentapotassium triphosphate

## KTPP

13845-36-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Intermediate Fertilizer Laboratory chemical Binder Corrosion inhibitors Filler Pharmaceutical Excipient Stabilizer/ Inhibitor Neutralisation agent

#### **1.3** Details of the supplier of the safety data sheet

Valudor Products, LLC 179 Calle Magdalena Suite 100 Encinitas, California CA 92024 United States Telephone: +1 (760) 635 8500 e-mail: info@valudor.com Website: www.valudor.com

#### 1.4 Emergency telephone number

#### **Emergency information**

800-535-5053 (Infotrac)

As above or nearest toxicological information centre.

#### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

This substance does not meet the criteria for classification.

#### 2.2 Label elements

# Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Not required.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Name of substance	pentapotassium triphosphate
Identifiers	
CAS No	13845-36-8
Molecular formula	O10P3K5
Molar mass	448.4 <sup>g</sup> / <sub>mol</sub>

#### **SECTION 4: First-aid measures**

#### 4.1 Description of first-aid measures

#### **General notes**

In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### **Following ingestion**

Rinse mouth immediately and drink plenty of water. Get medical advice/attention if you feel unwell.

#### Notes for the doctor

None.

#### 4.2 Most important symptoms and effects, both acute and delayed

These information are not available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

None.

#### **SECTION 5: Fire-fighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

coordinate firefighting measures to the fire surroundings

#### Unsuitable extinguishing media

none

#### 5.2 Special hazards arising from the substance or mixture

Phosphorus oxides (PxOy).

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

#### Special protective equipment for firefighters

use suitable breathing apparatus

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Ventilate affected area. Do not breathe dust. Avoid contact with skin and eyes. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically. Collect spillage.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

#### Specific notes/details

None.

#### Handling of incompatible substances or mixtures

Do not mix with acids.

#### Measures to protect the environment

Avoid release to the environment.

#### Advice on general occupational hygiene

Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Do not breathe dust. Avoid contact with skin and eyes. Wash hands after use. Preventive skin protection (barrier creams/ointments) is recommended.

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

#### **Flammability hazards**

None.

#### Incompatible substances or mixtures

Incompatible materials: see section 10.

#### Protect against external exposure, such as

heat, humidity

#### Consideration of other advice

Keep away from food, drink and animal feedingstuffs. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep cool.

#### **Ventilation requirements**

Provision of sufficient ventilation.

#### Specific designs for storage rooms or vessels

**Storage temperature** maximum storage temperature: 24 °C

#### Packaging compatibilities

Keep only in original container.

#### 7.3 Specific end use(s)

No information available.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

No data available.

#### 8.2 Exposure controls

#### Appropriate engineering controls

Use local and general ventilation.

#### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

Protective gloves		
Material	Material thickness	Breakthrough times of the glove material
IIR: isobutene-isoprene (butyl) rubber	these information are not available	these information are not available
NBR: acrylonitrile-butadiene rubber	no information available	no information available

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

#### **Body protection**

Protective clothing for use against solid particulates.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Appearance	
Physical state	solid (powder, crystals)
Color	white
Odor	odorless
Odor threshold	not applicable
Other safety parameters	
pH (value)	8.6 (in aqueous solution: 1 % ( $^{w}$ / $_{w}$ ))
Melting point/freezing point	>450 °C (EU method A.1)
Boiling point or initial boiling point and boiling range	630 °C
Flash point	not applicable
Evaporation rate	not determined
Flammability (solid, gas)	non-combustible
Explosive limits	
Explosion limits of dust clouds	not determined
Vapor pressure	not determined
Density	not determined
Vapor density	not determined
Bulk density	0.95 <sup>g</sup> / <sub>cm³</sub>
Relative density	2.72 at 21.5 °C (water = 1) (EU method A.3)
Solubility(ies)	
Water solubility	45.7 %(w/w) (20 °C; pH 9.1) (EU method A.6)
Partition coefficient	
n-octanol/water (log KOW)	not relevant (inorganic)
Auto-ignition temperature	not determined
Decomposition temperature	not relevant

	Viscosity	not relevant (solid)
	Explosive properties	none
	Oxidizing properties	none
	Information for relevant hazard classes according to GHS	hazard classes acc. to GHS (physical hazards): not relevant
9.2	Other information	there is no additional information

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Hygroscopic solid.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

Protect from moisture.

#### 10.5 Incompatible materials

acids

#### **10.6** Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

#### **SECTION 11: Toxicological information**

#### **11.1** Information on toxicological effects

If not otherwise specified the classification is based on:

Animal studies; Evidence from any other toxicity tests; Expert judgment (weight of evidence determination).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

This substance does not meet the criteria for classification.

#### Acute toxicity

Shall not be classified as acutely toxic (oral).

Exposure route	Endpoint	Value	Species	Method
oral	LD50	>2,000 <sup>mg</sup> / <sub>kg</sub>	rat, female	OECD Guideline 420

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitization Skin sensitization

Shall not be classified as a skin sensitizer.

#### **Respiratory sensitization**

Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### IARC Monographs

not listed

#### National Toxicology Program (United States)

not listed

#### **OSHA** Carcinogens

Not listed.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Specific target organ toxicity - repeated exposure

Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

#### 11.2 Other information

There is no additional information.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### Aquatic toxicity (acute)

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

Endpoint	Value	Species	Method	Exposure time
EC50	>100 <sup>mg</sup> / <sub>l</sub>	daphnia magna	EPA OTS 797.1930	48 h
LC50	1,850 <sup>mg</sup> / <sub>l</sub>	zebra fish (Danio rerio)	NF T90-303	24 h

#### Aquatic toxicity (chronic)

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

Endpoint	Value	Species	Method	Exposure time
ErC50	>900 <sup>mg</sup> /l	algae (Sceletonema cost- atum)	AFNOR T95E - doc 50F	7 d
EC50	>1,000 <sup>mg</sup> / <sub>l</sub>	activated sludge of a pre- dominantly domestic sewage	OECD Guideline 209	3 h
NOEC	1,000 <sup>mg</sup> / <sub>l</sub>	activated sludge of a pre- dominantly domestic sewage	OECD Guideline 209	3 h

#### 12.2 Persistence and degradability

#### **Biodegradation**

The study does not need to be conducted because the substance is inorganic.

#### Persistence

The study does not need to be conducted because the substance is inorganic.

#### 12.3 Bioaccumulative potential

No data available.

n-octanol/water (log KOW)

not relevant (inorganic)

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### 12.6 Other adverse effects

Not listed. This information is not available.

#### Remarks

None.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions.

#### **SECTION 14: Transport information**

14.1	UN number	not assigned
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Transport in bulk according to IMO instruments	-

#### 14.8 Information for each of the UN Model Regulations

**Transport of dangerous goods by road or rail (49 CFR US DOT) Additional information** Not subject to transport regulations.

#### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations specific for the product in question
National regulations (United States)
Toxic Substance Control Act (TSCA)
substance is listed

#### Superfund Amendment and Reauthorization Act (SARA TITLE III )

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

not listed

#### **Specific Toxic Chemical Listings (EPCRA Section 313)**

not listed

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

#### List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

not listed

#### **Clean Air Act**

not listed

#### **Right to Know Hazardous Substance List**

#### Hazardous Substance List (NJ-RTK)

not listed

#### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

not listed

# Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

not listed

#### Industry or sector specific available guidance(s)

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description	
Chronic	/	none	
Health	0	no significant risk to health	
Flammability	0	material that will not burn under typical fire conditions	
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive	
Personal protection	-	-	

#### **NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	0	material that will not burn under typical fire conditions
Health	0	material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material
Instability	0	material that is normally stable, even under fire conditions
Special hazard	-	-

# 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

# SECTION 16: Other information, including date of preparation or last revision

Date of preparation: 2022-11-09

# Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
49 CFR US DOT	49 CFR U.S. Department of Transportation	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical sub- stances)	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance caus- ing 50 % changes in response (e.g. on growth) during a specified time interval	
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IARC	International Agency for Research on Cancer	
IARC Mono- graphs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	
ΙΑΤΑ	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
IMDG	International Maritime Dangerous Goods Code	
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval	
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality dur- ing a specified time interval	
NOEC	No Observed Effect Concentration	
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition	

Abbr.	Descriptions of used abbreviations
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### Responsible for the safety data sheet

Chemical Regulatory Compliance Company	Telephone: +1 (630) 410-1660
Jasper, GA	e-Mail: GHS@crc-us.com
USA	Website: www.crc-us.com

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.