

		SAFETY	DATA SHEET			
		according to Regulation (EC)	No 1907/2006 (REACH) a	is amended		
		tri-Sodium phos				
Creat	ion date	18th November 2019				
Revis	ion date	13th April 2023	Version	3.0		
SECT	ION 1: Identification	of the substance/mixture a	and of the company/un	dertaking		
1.1.	Product identifier		tri-Sodium phosp	hate dodecahydrate		
	Substance / mixture		substance			
	Chemical name		Sodium phosphat	e dodecahydrate		
	CAS number		10101-89-0			
	EC (EINECS) number		231-509-8			
	Registration number		01-2119489800-	32-xxxx		
1.2.	Relevant identified	uses of the substance or n	nixture and uses advise	ed against		
	Substance's intende	ed use				
	Chemical production,	analytical chemistry, laborato	ory synthesis, industrial ap	oplications.		
	Substance uses advised against					
	The product should no	ot be used in ways other then	those referred in Section	1.		
1.3.	Details of the suppl	ier of the safety data shee	t			
	Supplier					
	Name or trade	name	Ing. Petr Švec - F	PENTA s.r.o.		
	Address		Radiová 1122/1,	Praha 10, 102 00		
			Czech Republic			
	Identification nu	umber (CRN)	02096013			
	VAT Reg No		CZ02096013			
	Phone		+420 226 060 68	81		
	E-mail		info@pentachemi	cals.eu		
	Web address		www.pentachemi	cals.eu		
	Competent person	responsible for the safety o	-			
	Name	-	Ing. Petr Švec - F	PENTA s.r.o.		
	E-mail		info@pentachemi			
1.4.	Emergency telepho	ne number	- •			
	European emergency	number: 112				

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification of the substance in accordance with Regulation (EC) No 1272/2008

The substance is classified as dangerous.

Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements

Hazard pictogram





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Dangerous substance

Sodium phosphate dodecahydrate (EC: 231-509-8: CAS: 10101-89-0)

(LC. 231-309-0, CAS. 1	.0101-09-0)
Hazard statements	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Precautionary statem	ents
P261	Avoid breathing dust.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Dust may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 10101-89-0 EC: 231-509-8 Registration number: 01-2119489800-32- xxxx	substance main component Sodium phosphate dodecahydrate		Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.



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If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

Most important symptoms and effects, both acute and delayed If inhaled

May cause respiratory irritation.

If on skin

4.2.

5.2.

Causes skin irritation.

If in eyes

Causes serious eye irritation. If swallowed

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures 6.1.

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale dust. Prevent contact with skin and eyes.

6.2. **Environmental precautions** Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

6.4. **Reference to other sections** See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not inhale dust. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Keep container tightly closed.

7.3. Specific end use(s)



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product (nitrile rubber). When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Half-mask with anti-dust filter when the exposition limits of substances are exceeded or in the location with insufficient ventilation.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	white
Odour	without fragrance
Melting point/freezing point	75 °C
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
рН	10 (10g/l% solution at 20 °C)
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1,62 g/cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Other information	

9.2. Other informat not available

SECTION 10: Stability and reactivity

10.1. Reactivity

The substance is non-flammable.

10.2. Chemical stability

The product is stable under normal conditions.



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	sibility of hazardous reactions					
	nown.					
	ditions to avoid					
	product is stable and no degradation occunst frost.	urs under normal use. Protec	ct against flames, sparks, overheating an			
-	ompatible materials					
	ect against strong acids, bases and oxidizi	ng agents.				
	ardous decomposition products					
Not	developed under normal uses. Dangerous	outcomes such as carbon m	nonoxide and carbon dioxide are formed a			
hig	temperature and in fire.					
CECTION .						
	1: Toxicological information ormation on hazard classes as defined	in Pequiption (EC) No 127	72/2008			
			/2/2008			
	No toxicological data is available for the substance. Acute toxicity					
	Based on available data the classification criteria are not met.					
Ski	Skin corrosion/irritation					
	ses skin irritation.					
Se	ous eye damage/irritation					
Cau	ses serious eye irritation.					
Re	piratory or skin sensitisation					
Bas	ed on available data the classification criter	ria are not met.				
Ge	m cell mutagenicity					
Cai	cinogenicity					
	ed on available data the classification criter	ria are not met.				
	roductive toxicity					
	ed on available data the classification criter					
	icity for specific target organ - single e	exposure				
	cause respiratory irritation. icity for specific target organ - repeate	ad avpacura				
	ed on available data the classification criter	-				
	iration hazard	na are not met.				
-	ed on available data the classification criter	ria are not met.				
	prmation on other hazards					
		ting properties in accordance	e with the criteria set out in Commission			
The Del	substance doe gated Regulat 2: Ecological	ion (EU) 2017/2100 or Com	es not have endocrine disrupting properties in accordance ion (EU) 2017/2100 or Commission Regulation (EU) 201			
xicity						

- 12.2. Persistence and degradability not available
- 12.3. Bioaccumulative potential Not available.
- **12.4.** Mobility in soil Not available.
- 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties



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This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

- 14.1. UN number or ID number
 - not subject to transport regulations
- 14.2. UN proper shipping name not relevant
- 14.3. Transport hazard class(es) not relevant
- 14.4. Packing group not relevant
- 14.5. Environmental hazards not relevant
- **14.6.** Special precautions for user not available
- **14.7.** Maritime transport in bulk according to IMO instruments not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H315	Causes skin irritation.	
H319	Causes serious eye irritation.	



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H335	May cause respiratory irritation.
Guidelines for safe	andling used in the safety data sheet
P261	Avoid breathing dust.
P280	Wear protective gloves.
P302+P352 P305+P351+P338	IF ON SKIN: Wash with plenty of water and soap. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
The product must no as per the Section 1.	Inmation about human health protection be - unless specifically approved by the manufacturer/importer - used for purposes other the user is responsible for adherence to all related health protection regulations. and acronyms used in the safety data sheet
ADR	European agreement concerning the international carriage of dangerous goods by
	road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure
Training guidelines	
	about the recommended ways of use, mandatory protective equipment, first aid and prohibit roduct.
Recommended rest	ictions of use
	ata sources used to compile the Safety Data Sheet



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REGULATION (EC) the manufacturer o	No. 1907/2006 OF THE EUR No. 1272/2008 OF THE EUR ^f the substance / mixture, if a ch information has been a	OPEAN PARLIAMENT AND O vailable - information from	F THE COUNCIL as amered among a second secon		
The changes (which information has been added, deleted or modified) The version 3.0 replaces the SDS version from 07 February 2022. Changes were made in sections 1, 2, 15 and 16. More information Classification procedure - calculation method.					

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.