

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation tri-Sodium phosphate dodecahydrate

Product No. PRD5641

Substance name tri-Sodium phosphate dodecahydrate

CAS No. 10101-89-0

INDEX no.

REACH registration No. Not yet communicated down the supply chain. other means of identification Sodium phosphate tribasic dodecahydrate

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

Relevant identified uses for laboratory use and chemical production.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Better Equipped,

Wrenbury Business Park,

Wrenbury Road,

Wrenbury,

Nantwich, Cheshire,

CW5 8EB, UK

Telephone +44 (0) 800 9707142

Fax +44 (0) 800 066 4443

E-mail address sales@betterequipped.co.uk

1.4 Emergency telephone

Telephone +44 (0)1270 781238

- Hazards identification
- 2.1 Classification of the substance or mixture
- 2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

	hazard classes and hazard categories	Hazard Statements	classification procedure	remark
E	eye irritation, category 2	H319		

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols:	R-phrases
Xi	R36/37/38

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No. 1272/2008 [CLP]



Signal word Warning

Hazard Statements

H319	Causes serious eye irritation.
H315	Causes skin irritation.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.2.2 Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols:

Χi

R-phrases

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R36/37/38	Irritating to eyes, respiratory system and skin.

S-phrases not applicable

2.3 Other hazards

SVHC No

3. Composition/ Information on ingredients

Molecular formula Na3O4P.12H2O
Molecular weight (g/mol) 380.12 g/mol
CAS No. 10101-89-0

INDEX no.

First-aid measures

4.1 General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

4.2 After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

4.3 In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

4.4 After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

4.5 After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting. Give nothing to eat or drink.

4.6 Self-protection of the first aider

First aider: Pay attention to self-protection!

4.7 Information to physician:

Symptoms No data available
Hazards No data available
Treatment No data available

Firefighting measures

5.1 Suitable extinguishing media

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Extinguishing media which must not be used for safety reasons:

no restriction

5.3 Special hazards arising from the substance or mixture

In case of fire may be liberated: Nitrogen oxides (NOx)

5.4 Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

5.5 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust. Provide adequate ventilation. Use personal protection equipment. In case of major fire and large quantities: Remove persons to safety.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Take up dust-free and set down dust-free. Collect in closed and suitable containers for disposal.

6.4 Additional information

Clear spills immediately.

7. Handling and storage

7.1 Precautions for safe handling

All work processes must always be designed so that the following is as low as possible: Inhalation. skin contact eye contact.

7.2 Conditions for safe storage, including any incompatibilities

storage temperature

15-25°C

Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

8. Exposure controls / Personal protection

8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

8.3 Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

8.3.1 Eye / face protection

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

8.3.2 Skin protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

By short-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material 0,12 mm

Breakthrough time (maximum wearing time) >480 min

Recommended glove articles VWR 112-0998

By long-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material 0,38 mm

Breakthrough time (maximum wearing time) >480 min

Recommended glove articles VWR 112-3717 / 112-1381

8.3.3 Protective clothing

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

8.3.4 Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Suitable respiratory protection apparatus:

Filtering Half-face mask (DIN EN 149)

Recommendation VWR 111-0451

Suitable material: P3

Recommendation No data available

8.4 Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Appearance

Physical state solid Colour white

(b) Odour No data available (c) Odour threshold No data available

Safety relevant basic data

(d) pH No data available

(e) Melting point/freezing point ~ 75°C

(f) Initial boiling point and boiling range

(g) Flash point

(h) Evaporation rate

(i) Flammability (solid, gas)

No data available

No data available

not applicable

(j) Upper/lower flammability or explosive limits

Lower explosion limit (Vol-%)

Upper explosion limit (Vol-%)

(k) Vapour pressure

(l) Vapour density

No data available

(n) Solubility(ies)

Water solubility (g/l) 285 g/l (20°C)

at °C:

Soluble (g/l) in No data available
(o) Partition coefficient: n-octanol/water No data available
(p) Auto-ignition temperature No data available
(q) Decomposition temperature No data available

(r) Viscosity

Kinematic viscosity
Dynamic viscosity
No data available
No data available
No data available
not applicable
not applicable

9.2 Other information

Bulk density
Ro data available
refraction index
1.4458 (589 nm, 25°C)
dissociation constant
No data available
Surface tension
No data available
Henry constant
No data available

10.	Stability and reactivity				
10.1	10.1 Reactivity				
	No data available				
IN	o data avaliable				
10.2	10.2 Chemical stability				
	o data available				
IN	o data avallable				
10.3	Possibility of hazardous reactions				
	o data available				
IN	o data avaliable				
10.4	Conditions to avoid				
N	o data available				
IN	o data avaliable				
10.5	Incompatible materials				
	No data available				
IN	o data available				
10.6	Hazardous decomposition products				
	o data available				
	o data available				
10.7	Additional information				
N	o data available				
11.	Toxicological information				
11.1	Information on toxicological effects				
,	Acute effects				
	todic effects				
A	Acute oral toxicity				
	Effective dose	LD50: 7400 mg/kg			
	pecies:	rat			
	Exposure time				
	emark	DTEGO			
S	ource	RTECS			
A	acute dermal toxicity				
Е	Effective dose	No data available			
	pecies:	No data available			
E	exposure time	No data available			
E		No data available			

Acute inhalation toxicity Effective dose species:

No data available No data available

remark source

Exposure time

Irritant and corrosive effects

Primary irritation to the skin

Exposure time

species: Result

Irritation to eyes

Exposure time

species:

Result

Irritation to respiratory tract

Exposure time

species:

Result

Sensitisation

In case of skin contact After inhalation

not sensitising. not sensitising.

Specific target organ toxicity (single exposure)

not relevant

Specific target organ toxicity (repeated exposure)

not relevant

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No indication of human carcinogenicity.

Germ cell mutagenicity/Genotoxicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

No indications of human reproductive toxicity exist.

Aspiration hazard

not relevant

11.2 Other adverse effects

No data available

11.3 Additional information

No data available

12. Ecological information

12.1 Ecotoxicity

Acute (short-term) fish toxicity

LC50: No data available

EC50 species: Exposure time

Chronic (long-term) fish toxicity

LC50: No data available

EC50 species: Exposure time

Acute (short-term) daphnia toxicity

LC50: No data available

EC50 species: Exposure time

Chronic (long-term) daphnia toxicity

LC50: No data available

EC50 species: Exposure time

Acute (short-term) algae toxicity

LC50: No data available

EC50 species: Exposure time

Chronic (long-term) algae toxicity

LC50: No data available

EC50 species: Exposure time

12.2 Persistence and degradability

No data available 12.3 Bioaccumulative potential (o) Partition coefficient: n-octanol/water No data available 12.4 Mobility in soil No data available 12.5 Results of PBT assessment No data available 12.6 Other adverse effects No data available Disposal considerations 13.1 Waste treatment methods Appropriate disposal / Product Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal. Waste code product 16 05 07 (discarded inorganic chemicals consisting of or containing dangerous substances) Appropriate disposal / Package 13.2 Additional information No data available

14. Transport information

14.1 Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

14.2 Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

14.3 Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

14.4 Additional information

No data available

15. Regulatory information

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

Water hazard class (WGK)

1

15.2 Chemical Safety Assessment

No data available

16. Other information

16.1 Relevant R-, H- and EUH-phrases (Number and full text)

R36/37/38	Irritating to eyes, respiratory system and skin.	
H319	Causes serious eye irritation.	
H315	Causes skin irritation.	

16.2 Additional information

Indication of changes

general update

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.