

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 07/11/2014

SECTION 1: Identification of the substance/mixture

1.1. Product identifier

Product form : Substance

Substance name : Trisodium Phosphate

Formula : Na₃PO₄

Molecular weight : 163.94 g/mol

CAS No. : 7601-54-9

Product code : LW-TSP

Synonyms : Sodium Phosphate Tribasic

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

Use of the substance/mixture : Laboratory chemicals, Synthesis of substances

1.3. Emergency telephone number

Emergency number : 1.800.424.9300 (USA)

+1.703.527.3887 (INT)

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. GHS Label elements, including precautionary statements

Pictogram :

Si di li

Signal word : Warning

Hazard statement(s)

H315 : Causes skin irritation.

H319 : Causes serious eye irritation.

H335 : May cause respiratory irritation.

Precautionary statement(s)

P261 : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 : Wash skin thoroughly after handling.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P280 : Wear protective gloves/ eye protection/ face protection.

P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 : IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

P312 : Call a POISON CENTER or doctor/ physician if you feel unwell.

P321 : Specific treatment (see supplemental first aid instructions on this

label).

P332 + P313 : If skin irritation occurs: Get medical advice/ attention.

P337 + P313 : If eye irritation persists: Get medical advice/ attention.

P362 : Take off contaminated clothing and wash before reuse.

P403 + P233 : Store in a well-ventilated place. Keep container tightly closed.

P405 : Store locked up.

P501 : Dispose of contents/ container to an approved waste disposal

plant.

2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

none

SECTION 3: Composition/information on ingredients

3.1. Substances

Formula : Na₃PO₄

Synonyms : Trisodium Orthophosphate

Molecular Weight : 163.94 g/mol CAS-No. : 7601-54-9

Hazardous components

Component	Classification	Concentration
Trisodium orthophosphate	Skin Irrit. 2; Eye Irrit. 2A;	90 - 100 %
	STOT SE 3; H315, H319,	
	H335	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: Description of first aid measures

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4.1. Description of first aid measures

General advice : Consult a physician. Show this safety data sheet to the doctor in

attendance. Move out of dangerous area.

First-aid measures after inhalation : If breathed in, move person into fresh air. If not breathing, give

artificial respiration. Consult a physician.

First-aid measures after skin contact : Wash off with soap and plenty of water. Take victim immediately

to hospital. Consult a physician.

First-aid measures after eye contact : Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse

mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Oxides of phosphorus, Sodium oxides.

5.3. Advice for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

5.4. More Information

No data available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Moisture sensitive.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Trisodium orthophosphate	7601-54-9	STEL	5 mg/m3	USA. Workplace Environmental Exposure Levels (WEEL)

8.2. Exposure controls

Appropriate engineering controls

: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3. Personal protective equipment

Eye protection

: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection

: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Aldrich - 342483 Page 4 of 7

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659

87300, e-mail sales@kcl.de, test method:

EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for

any specific use scenario.

Body protection : Impervious clothing, The type of protective equipment must be

selected according to the concentration and amount of the

dangerous substance at the specific workplace.

Respiratory protection : For nuisance exposures use type P95 (US) or type P1 (EU EN 143)

particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator

cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or

CEN (EU).

Environmental exposure controls : Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : Form: crystalline

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Color: white

Odor : no data available
Odor Threshold : No data available
pH : 11 at 20 °C (68 °F)

Melting point/freezing point : Melting point/range: 189.5 °C (373.1 °F) - dec. Initial boiling point and boiling range : 75 °C (167 °F) - Decomposes before melting.

Flash point : No data available Evaporation rate : No data available Flammability (solid, gas) : No data available Upper/lower flammability or : No data available

explosive limits

Vapor pressure : No data available
Vapor density : No data available
Relative density : No data available

Water solubility : 121 g/l at 20 °C (68 °F)

Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available

Decomposition temperature : 75 °C (167 °F) - Decomposes before melting.

Viscosity : No data available Explosive properties : No data available Oxidizing properties : No data available

9.2. Other safety information

Surface tension : no data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

no data available

10.5. Incompatible materials

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Strong acids

10.6. Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : no data available

Inhalation: no data available Dermal: no data available

no data available

Skin corrosion/irritation : Skin - rabbit

Result: Irritating to skin.

Serious eye damage/irritation : Eyes - rabbit

Result: Moderate eye irritation

Respiratory or skin sensitization : no data available Germ cell mutagenicity : no data available

Carcinogenicity

Human carcinogen. May cause cancer by inhalation.

IARC: : No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH : No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

NTP: : No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

OSHA: : No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

Reproductive toxicity : no data available

Specific target organ toxicity (single : No data available

exposure)

Specific target organ toxicity : Inhalation - May cause respiratory irritation.

(repeated exposure)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aspiration hazard : No data available
Additional Information : RTECS: TC9490000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Immobilization EC50 - Daphnia magna (Water flea) - 162.2 mg/l -

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish : static test LC50 - Leuciscus idus melanotus - 160 mg/l - 48 h

Toxicity to daphnia and other aquatic

invertebrates 48 h (OECD Test Guideline 202)

12.2. Persistence and degradability : No data available

Biodegradability : aerobic - Exposure time 20 d

Result: 89 % - Readily biodegradable

12.3. Bioaccumulative potential : No data available

12.4. Mobility in soil : No data available

12.5. Results of PBT and vPvB : PBT/vPvB assessment not available as chemical safety

assessment not required/not conducted

12.6. Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal

company. Contact a licensed professional waste disposal service

to dispose of this material.

Contaminated Packaging : Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

Trisodium orthophosphate	CAS-No.	Revision Date
	7601-54-9	2007-03-01

Pennsylvania Right To Know Components

Trisodiam of thophosphate	C/13 110.	Revision Bate
Trisodium orthophosphate	CAS-No.	Revision Date

7601-54-9 2007-03-01

New Jersey Right To Know Components

Trisodium orthophosphate CAS-No. Revision Date 7601-54-9 2007-03-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit. : Eye irritation

H315 : Causes skin irritation.

H319 Causes serious eye irritation.
H335 : May cause respiratory irritation.

Skin Irrit. : Skin irritation

STOT SE : Specific target organ toxicity - single exposure

HMIS Rating

Health Hazard : 2
Chronic Health Hazard : *
Flammability : 0

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Physical Hazard : 0

NFPA Rating

Health hazard 2 Fire Hazard 0 Reactivity Hazard 0

Further Information

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Loudwolf Holdings Ltd. assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his/her application.