

SPAN SC™ ORTHOPHOSPHORIC ACID 75% EXTRA PURE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 02-12-2021 Version: 1.0

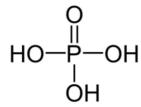
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Trade name :ORTHOPHOSPHORIC ACID 75% EXTRA PURE :

EC Index-No. 015-011-00-6 EC-No. : 231-633-2 CAS-No. : 7664-38-2 Product code : 0231B Type of product Formula : Solution, Acids Chemical structure : H3PO4 :



:Phosphoric acid, o-Phosphoric acid, OPA Synonyms

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

against 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial :Laboratory

Use of the substance/mixture chemicals **Pharmaceuticals**

1.2.2. Uses advised against

No additional information

1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE, WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or

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

Skin corrosion/irritation, Category 1 H314

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage.

2.2. Label elements

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

Hazard pictograms (CLP)



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

GHS05

Signal word (CLP) Contains : Danger

Hazard statements (CLP) :ORTHOPHOSPHORIC ACID AR

Precautionary statements (CLP) :H314 - Causes severe skin burns and eye damage.

:P280 - Wear eye protection, eye protection, face protection, face protection, hearing protection, protective clothing, protective clothing, eye protection, face protection, protective

gloves.

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

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

P310 - Immediately call a doctor.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------------------|--|---------|---|
| ORTHOPHOSPHORIC ACID AR | CAS-No.: 7664-38-2 EC- No.: 231-633-2 EC Index-No.: 015-011-00-6 | 73 – 78 | Skin Corr. 1B, H314 Eye Dam. 1, H318 |
| WATER DISTILLED | CAS-No.: 7732-18-5 | 22 – 27 | Not classified |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general :Call a physician immediately.

First-aid measures after inhalation :Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact :Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician

immediately.

First-aid measures after eye contact :Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion :Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact :Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media :Water spray. Dry powder. Foam. Carbon dioxide.

02-12-2021 (Issue date) EN (English) 2/12

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire :Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting :Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures :Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust, fume, gas,

mist, spray, vapours.

6.1.2. For emergency

responders Protective equipment :Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up :Take up liquid spill into absorbent material.

Other information :Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling :Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not

breathe dust, fume, gas, mist, spray, vapours. Wear personal protective equipment.

Hygiene measures :Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions :Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

| ORTHOPHOSPHORIC ACID 75% EXTRA PURE (7664-38-2) | |
|--|----------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Orthophosphoric acid |
| IOEL TWA | 1 mg/m³ |
| IOEL STEL | 2 mg/m³ |

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| ORTHOPHOSPHORIC ACID 75% EXTRA PURI | E (7664-38-2) |
|---|--|
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Germany - Occupational Exposure Limits (TRGS 90 | 00) |
| Local name | Orthophosphorsäure |
| AGW (OEL TWA) [1] | 2 mg/m³ (E) |
| Peak exposure limitation factor | 2(I) |
| Remark | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); AGS - Ausschuss für Gefahrstoffe; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden |
| Regulatory reference | TRGS900 |
| Portugal - Occupational Exposure Limits | |
| Local name | Ácido fosfórico |
| OEL TWA | 1 mg/m³ |
| OEL STEL | 3 mg/m³ |
| Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Spain - Occupational Exposure Limits | |
| Local name | Ácido ortofosfórico |
| VLA-ED (OEL TWA) [1] | 1 mg/m³ |
| VLA-EC (OEL STEL) | 2 mg/m³ |
| Notes | VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf). |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Orthophosphoric acid |
| WEL TWA (OEL TWA) [1] | 1 mg/m³ |
| WEL STEL (OEL STEL) | 2 mg/m³ |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Phosphoric acid |
| ACGIH OEL TWA | 1 mg/m³ |
| ACGIH OEL STEL | 3 mg/m³ |
| Remark (ACGIH) | TLV® Basis: URT, eye, & skin irr |
| Regulatory reference | ACGIH 2021 |

8.1.2. Recommended monitoring procedures

No additional information available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

1. Air contaminants formed No additional

information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

1. Personal protection equipment

Personal protective equipment symbol(s):









1. Eye and face protection

Eye protection:

Safety glasses

I. Skin protection

No additional information

available

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Appearance Molecular mass Colour Odour

Odour threshold pH Relative evaporation rate (butylacetate=1) Melting point

Freezing point
Boiling point
Flash point

Auto-ignition temperature
Decomposition temperature
Flammability (solid, gas)
Vapour pressure

Relative vapour density at 20 °C

Relative density

: Liquid

:Clear. Viscous liquid.

:98 g/mol

:Clear colourless.

:No information available.

:No data available

:< 0.5 100 g/l at 20°C :No

data available :Not applicable :-17 °C :135 °C

:No data available :No data available :No data available :Not applicable :6.5 hPa at 25°C :3.38 (Air = 1) :≈ 1.58 at 25°C

02-12-2021 (Issue date) EN (English) 5/12

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Solubility :Water: Miscible :No
Partition coefficient n-octanol/water (Log Pow) data available :14.7
Viscosity, kinematic mm²/s at 25°C :No
Viscosity, dynamic data available :No
Explosive properties data available :No
Oxidising properties data available :No
Explosive limits data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1.

Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : N o t c I a s s i fi e d
Acute toxicity (dermal) Acute : N o t c I a s s i fi e d
toxicity (inhalation) Skin : N o t c I a s s i fi e d

corrosion/irritation :Causes severe skin burns.

pH: < 0.5 100 g/l at 20°C

Serious eye damage/irritation :Assumed to cause serious eye damage

pH: < 0.5 100 g/l at 20°C

Respiratory or skin sensitisation :Not classified
Germ cell mutagenicity :Not classified
Carcinogenicity :Not classified
Reproductive toxicity STOT- :Not classified
single exposure STOT- :Not classified
repeated exposure Aspiration :Not classified
hazard :Not classified

ORTHOPHOSPHORIC ACID 75% EXTRA PURE (7664-38-2)

Viscosity, kinematic 14.7 mm²/s at 25°C

02-12-2021 (Issue date) EN (English) 6/12

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general :Before neutralisation, the product may represent a danger to aquatic organisms.

Hazardous to the aquatic environment, short-term

Hazardous to the aquatic environment, long-term

(chronic)

:Not classified

:Not classified

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods :Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number

| 05 |
|----|
| J |
| 05 |
| 05 |
| 5 |
| (|

14.2. UN proper shipping

name Proper Shipping Name (ADR) :PHOSPHORIC ACID, SOLUTION Proper Shipping Name (IMDG) :PHOSPHORIC ACID SOLUTION Proper Shipping Name (IATA) :Phosphoric acid, solution Proper Shipping Name (ADN) :PHOSPHORIC ACID, SOLUTION

Proper Shipping Name (RID) :PHOSPHORIC ACID, SOLUTION Transport document description (ADR) :UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III, (E)

Transport document description (IMDG) :UN 1805 PHOSPHORIC ACID SOLUTION, 8, III :UN

Transport document description (IATA) 1805 Phosphoric acid, solution, 8, III

:UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III :UN Transport document description (ADN)

Transport document description (RID) 1805 PHOSPHORIC ACID, SOLUTION, 8, III

14.3. Transport hazard class(es)

Transport hazard class(es) (ADR) : 8

02-12-2021 (Issue date) 7/12 EN (English)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Danger labels (ADR)



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) :8



IATA

Transport hazard class(es) (IATA) : 8
Danger labels (IATA) : 8



ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) :8



RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) :8



14.4. Packing

group
Packing group (ADR) : III :
Packing group (IMDG) III :
Packing group (IATA) III :
Packing group (ADN) III :
Packing group (RID) III

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information :No supplementary information available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.6. Special precautions for

user

Overland transport

Classification code (ADR) :C1
Limited quantities (ADR) :5I
Excepted quantities (ADR) :E1

Packing instructions (ADR) :P001, IBC03, LP01, R001

Mixed packing provisions (ADR) :MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions :TP1

(ADR)

Tank code (ADR) : L4BN
Tank special provisions (ADR) :TU42
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Hazard identification number (Kemler No.) :80

Orange plates

80 1805

Tunnel restriction code (ADR) :E EAC code :2R

Transport by sea

Special provisions (IMDG) : 223 Limited quantities (IMDG) :5 L Excepted quantities (IMDG) : E1 :P001, LP01 Packing instructions (IMDG) :IBC03 IBC packing instructions (IMDG) Tank instructions (IMDG) :T4 Tank special provisions (IMDG) :TP1 EmS-No. (Fire) : F-A : S-B EmS-No. (Spillage) Stowage category (IMDG) : A

Segregation (IMDG) :SGG1, SG36, SG49

Properties and observations :Miscible in water. Mildly corrosive to most metals.

(IMDG)

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841 :1L
PCA limited quantity max net quantity (IATA) : 852
PCA packing instructions (IATA) : 5L
PCA max net quantity (IATA) : 856
CAO packing instructions (IATA) : 60L :A3,
CAO max net quantity (IATA) : A803 : 8L

Special provisions (IATA)

ERG code (IATA)

Inland waterway transport

Classification code (ADN) :C1
Limited quantities (ADN) :5 L
Excepted quantities (ADN) :E1 :PP,
Equipment required (ADN) :EP : 0

Number of blue cones/lights (ADN)

Rail transport

Classification code (RID) :C1
Limited quantities (RID) :5L
Excepted quantities (RID) :E1

Packing instructions (RID) :P001, IBC03, LP01, R001

Mixed packing provisions (RID) :MP19

02-12-2021 (Issue date) EN (English) 9/12

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions:TP1

(RID)

Tank codes for RID tanks (RID) : L4BN Special provisions for RID tanks (RID) :TU42 Transport category (RID) : 3 Special provisions for carriage – Packages (RID) : W12 Colis express (express parcels) (RID) : CE8 Hazard identification number (RID) : 80

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

| EU restriction list (REACH Annex XVII) | |
|--|---|
| Reference code | Applicable on |
| 3(b) | ORTHOPHOSPHORIC ACID 75% EXTRA PURE ; ORTHOPHOSPHORIC ACID AR |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

National 1. regulations

| Germany |
|---------|
|---------|

Employment restrictions

(JArbSchG)

Water hazard class (WGK) :WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BlmSchV) :Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen NIETlimitatieve lijst van voor de voortplanting

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid NIETlimitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling Denmark

Danish National Regulations

:Observe restrictions according Act on the Protection of Working Mothers (MuSchG) Observe restrictions according Act on the Protection of Young People in Employment

:None of the components are listed :None of the components are listed :None of the

components are listed

:None of the components are listed

:None of the components are listed

:Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms | |
|----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Abbreviations and acronyms | |
|----------------------------|--|
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| voc | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

| Full text of H- and EUH-statements | |
|------------------------------------|--|
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.