acc. to Regulation (EC) No. 1907/2006 (REACH)

#### meta-Phosphoric acid p.a., pieces

article number: CN91 Version: **3.0 en** 

Replaces version of: 2022-05-04

Version: (2)



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

#### **Product identifier** 1.1

Identification of the substance meta-Phosphoric acid p.a., pieces

Article number **CN91** 

EC number 253-433-4 CAS number 37267-86-0

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for squirting or spraying. Do not use

for products which come into direct contact with the skin. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

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

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de Website: www.carlroth.de

sheet:

sicherheit@carlroth.de e-mail (competent person):

#### 1.4 **Emergency telephone number**

| Name                                                     | Street    | Postal code/city     | Telephone    | Website |
|----------------------------------------------------------|-----------|----------------------|--------------|---------|
| National Poisons Information<br>Service<br>City Hospital | Dudley Rd | B187QH<br>Birmingham | 844 892 0111 |         |

# **SECTION 2: Hazards identification**

#### Classification of the substance or mixture 2.1

#### Classification acc. to GHS

| Section | Hazard class                      | Cat-<br>egory | Hazard class and category | Hazard<br>statement |
|---------|-----------------------------------|---------------|---------------------------|---------------------|
| 3.2     | Skin corrosion/irritation         | 1B            | Skin Corr. 1B             | H314                |
| 3.3     | Serious eye damage/eye irritation | 1             | Eye Dam. 1                | H318                |

For full text of abbreviations: see SECTION 16

United Kingdom (en) Page 1 / 15

acc. to Regulation (EC) No. 1907/2006 (REACH)

#### meta-Phosphoric acid p.a., pieces

article number: CN91



# The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

#### 2.2 Label elements

Labelling

Signal word Danger

**Pictograms** 

GHS05



#### **Hazard statements**

H314 Causes severe skin burns and eye damage

## **Precautionary statements**

## **Precautionary statements - prevention**

P280 Wear protective gloves/eye protection

#### **Precautionary statements - response**

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

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 POISON CENTER/doctor

#### 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.

#### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq$  0,1%.

# SECTION 3: Composition/information on ingredients

#### 3.1 Substances

"UVCB substance" (substance of unknown or variable composition).

Name of substance meta-Phosphoric acid

Molecular formula  $(HPO_3)n$  CAS No 37267-86-0 EC No 253-433-4 Purity 40-50%

United Kingdom (en) Page 2 / 15

acc. to Regulation (EC) No. 1907/2006 (REACH)

## meta-Phosphoric acid p.a., pieces

article number: CN91





| Name of substance    | Identifier                                 | Wt%     |
|----------------------|--------------------------------------------|---------|
| Sodium metaphosphate | CAS No<br>68915-31-1<br>EC No<br>272-808-3 | 50 – 60 |

#### Remarks

For full text of abbreviations: see SECTION 16

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

## 4.1 Description of first aid measures



#### **General notes**

Take off immediately all contaminated clothing.

## **Following inhalation**

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

#### **Following skin contact**

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

#### Following 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.

#### **Following ingestion**

Rinse mouth immediately and drink plenty of water. Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

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

Corrosion, Risk of blindness, Gastric perforation, Risk of serious damage to eyes

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

none

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media



## Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

United Kingdom (en) Page 3 / 15

acc. to Regulation (EC) No. 1907/2006 (REACH)

#### meta-Phosphoric acid p.a., pieces

article number: CN91



water jet

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

Combustible.

#### **Hazardous combustion products**

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Phosphorus oxides (PxOy)

#### 5.3 **Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

# **SECTION 6: Accidental release measures**

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



#### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

#### 6.2 **Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

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

## Advice on how to contain a spill

Covering of drains. Take up mechanically.

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

Take up mechanically. Control of dust.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

#### **Precautions for safe handling** 7.1

Handle and open container with care. Avoid dust formation. Clear contaminated areas thoroughly.

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

Removal of dust deposits.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

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

Store in a dry place. Hygroscopic solid.

United Kingdom (en) Page 4 / 15



acc. to Regulation (EC) No. 1907/2006 (REACH)

#### meta-Phosphoric acid p.a., pieces

article number: CN91



Observe hints for combined storage.

Protect against external exposure, such as

humidity

Consideration of other advice:

**Ventilation requirements** 

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

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

#### 8.1 **Control parameters**

#### **National limit values**

#### **Occupational exposure limit values (Workplace Exposure Limits)**

| Coun<br>try | Name of agent | CAS No | Identifi-<br>er | TWA<br>[mg/<br>m³] | STEL<br>[mg/<br>m³] | Ceil-<br>ing-C<br>[mg/<br>m³] | Nota-<br>tion | Source    |
|-------------|---------------|--------|-----------------|--------------------|---------------------|-------------------------------|---------------|-----------|
| GB          | dust          |        | WEL             | 10                 |                     |                               | i             | EH40/2005 |
| GB          | dust          |        | WEL             | 4                  |                     |                               | r             | EH40/2005 |

**Notation** 

TWA

Ceiling value is a limit value above which exposure should not occur Inhalable fraction Ceiling-C

Respirable fraction

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

minute period (unless otherwise specified)
Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

#### 8.2 **Exposure controls**

## Individual protection measures (personal protective equipment)

# **Eye/face protection**





Use safety goggle with side protection. Wear face protection.

#### Skin protection





United Kingdom (en) Page 5 / 15

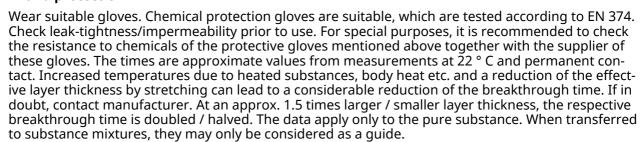


acc. to Regulation (EC) No. 1907/2006 (REACH)

#### meta-Phosphoric acid p.a., pieces

article number: CN91

## hand protection



#### type of material

NBR (Nitrile rubber)

#### material thickness

>0,11 mm

#### breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### **Respiratory protection**





Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

# SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state solid

Colour colourless
Odour odourless

Melting point/freezing point 135 – 150 °C at 1.013 hPa

Boiling point or initial boiling point and boiling >500 °C at 1.013 hPa

range

Flammability this material is combustible, but will not ignite

readily

Lower and upper explosion limit not determined

Flash point not applicable

Auto-ignition temperature not determined

Decomposition temperature not relevant

pH (value) 2 (in aqueous solution: 10 <sup>g</sup>/<sub>l</sub>, 20 °C)

United Kingdom (en) Page 6 / 15



acc. to Regulation (EC) No. 1907/2006 (REACH)

## meta-Phosphoric acid p.a., pieces

article number: CN91

Kinematic viscosity not relevant

Solubility(ies)

Water solubility >1.500 <sup>g</sup>/<sub>l</sub> at 20 °C

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure <0,001 hPa at 20 °C

Density and/or relative density

Density 2,2 – 2,4 <sup>g</sup>/<sub>cm³</sub> at 20 °C

Relative vapour density Information on this property is not available.

Particle characteristics No data available.

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics: There is no additional information.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

#### 10.2 Chemical stability

Moisture-sensitive. Hygroscopic solid.

#### 10.3 Possibility of hazardous reactions

**Violent reaction with:** strong oxidiser, Alcohols, Bases, Alkaline earth metal, Acids, Hydrogen peroxide

#### 10.4 Conditions to avoid

Protect from moisture.

#### 10.5 Incompatible materials

different metals

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

United Kingdom (en) Page 7 / 15



acc. to Regulation (EC) No. 1907/2006 (REACH)

#### meta-Phosphoric acid p.a., pieces

article number: CN91



# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### Classification acc. to GHS

#### **Acute toxicity**

Shall not be classified as acutely toxic.

## **Acute toxicity of components**

| Name of substance    | CAS No     | Exposure route | Endpoint | Value                               | Species |
|----------------------|------------|----------------|----------|-------------------------------------|---------|
| Sodium metaphosphate | 68915-31-1 | oral           | LD50     | 3.050 <sup>mg</sup> / <sub>kg</sub> | rat     |

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

## **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

## Symptoms related to the physical, chemical and toxicological characteristics

#### If swallowed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

## • If in eyes

causes burns, Causes serious eye damage, risk of blindness

#### • If inhaled

irritant effects, cough, Dyspnoea

#### • If on skin

causes severe burns, causes poorly healing wounds

#### Other information

none

United Kingdom (en) Page 8 / 15

acc. to Regulation (EC) No. 1907/2006 (REACH)

#### meta-Phosphoric acid p.a., pieces

article number: CN91



#### 11.3 Information on other hazards

There is no additional information.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0.1\%$ .

#### 12.7 Other adverse effects

Data are not available.

# **SECTION 13: Disposal considerations**

## Waste treatment methods



This material and its container must be disposed of as hazardous waste. 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/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### **Properties of waste which render it hazardous**

HP 4 irritant - skin irritation and eye damage

HP8 corrosive

United Kingdom (en) Page 9 / 15



# 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0.1\%$ .

acc. to Regulation (EC) No. 1907/2006 (REACH)

#### meta-Phosphoric acid p.a., pieces

article number: CN91





Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

# **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADRRID UN 3453 IMDG-Code UN 3453 ICAO-TI UN 3453

14.2 UN proper shipping name

ADRRID PHOSPHORIC ACID, SOLID IMDG-Code PHOSPHORIC ACID, SOLID ICAO-TI Phosphoric acid, solid

14.3 Transport hazard class(es)

ADRRID 8
IMDG-Code 8
ICAO-TI 8

14.4 Packing group

ADRRID III
IMDG-Code III
ICAO-TI III

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dan-

gerous goods regulations

#### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

#### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

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

# Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name PHOSPHORIC ACID, SOLID

Particulars in the transport document UN3453, PHOSPHORIC ACID, SOLID, 8, III, (E)

Classification code C2
Danger label(s) 8



Excepted quantities (EQ) E1

United Kingdom (en) Page 10 / 15



acc. to Regulation (EC) No. 1907/2006 (REACH)

#### meta-Phosphoric acid p.a., pieces

article number: CN91

Limited quantities (LQ) 5 kg

Transport category (TC) 3

Tunnel restriction code (TRC) E

Hazard identification No 80

Emergency Action Code 2X

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional

information

Classification code C2

Danger label(s) 8

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg
Transport category (TC) 3
Hazard identification No 80

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name PHOSPHORIC ACID, SOLID

Particulars in the shipper's declaration UN3453, PHOSPHORIC ACID, SOLID, 8, III

Marine pollutant Danger label(s) 8



Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg
EmS F-A, S-B
Stowage category A

Segregation group 1 - Acids

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Phosphoric acid, solid

Particulars in the shipper's declaration UN3453, Phosphoric acid, solid, 8, III

Danger label(s) 8



Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg

United Kingdom (en) Page 11 / 15



acc. to Regulation (EC) No. 1907/2006 (REACH)

#### meta-Phosphoric acid p.a., pieces

article number: CN91



# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

#### **Seveso Directive**

| 2012/ | 2012/18/EU (Seveso III)               |                                                                                       |       |  |  |  |  |  |
|-------|---------------------------------------|---------------------------------------------------------------------------------------|-------|--|--|--|--|--|
| No    | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |  |  |  |  |  |
|       | not assigned                          |                                                                                       |       |  |  |  |  |  |

#### **Deco-Paint Directive**

| VOC content | 0 %                           |
|-------------|-------------------------------|
| VOC content | 0 <sup>g</sup> / <sub>l</sub> |

#### **Industrial Emissions Directive (IED)**

| VOC content | 0 %                           |
|-------------|-------------------------------|
| VOC content | 0 <sup>g</sup> / <sub>I</sub> |

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

#### **Water Framework Directive (WFD)**

| List of pollutants (WFD) |                             |        |           |         |
|--------------------------|-----------------------------|--------|-----------|---------|
| Name of substance        | Name acc. to inventory      | CAS No | Listed in | Remarks |
| meta-Phosphoric acid     | Organophosphorous compounds |        | a)        |         |

#### Legend

a) Indicative list of the main pollutants

## Regulation on the marketing and use of explosives precursors

not listed

# **Regulation on drug precursors**

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

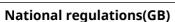
not listed

United Kingdom (en) Page 12 / 15

acc. to Regulation (EC) No. 1907/2006 (REACH)

#### meta-Phosphoric acid p.a., pieces

article number: CN91



List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

Restrictions according to GB REACH, Annex 17

not listed

#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### **National inventories**

| Country | Inventory | Status                       |
|---------|-----------|------------------------------|
| AU      | AIIC      | substance is listed          |
| CA      | DSL       | substance is listed          |
| CN      | IECSC     | substance is listed          |
| EU      | ECSI      | substance is listed          |
| JP      | CSCL-ENCS | substance is listed          |
| KR      | KECI      | substance is listed          |
| NZ      | NZIoC     | substance is listed          |
| PH      | PICCS     | substance is listed          |
| TW      | TCSI      | substance is listed          |
| US      | TSCA      | substance is listed (ACTIVE) |
| VN      | NCI       | substance is listed          |

Legend

AIIC

Australian Inventory of Industrial Chemicals List of Existing and New Chemical Substances (CSCL-ENCS)

CSCL-ENCS DSL ECSI IECSC Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China Korea Existing Chemicals Inventory
National Chemical Inventory

New Zealand Inventory of Chemicals Philippine Inventory of Chemicals and Chemical Substances (PICCS) Taiwan Chemical Substance Inventory

Toxic Substance Control Act

#### 15.2 Chemical safety assessment

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

## **SECTION 16: Other information**

#### **Indication of changes (revised safety data sheet)**

| Section | Former entry (text/value) | Actual entry (text/value)                                                                                         | Safety-<br>relev-<br>ant |
|---------|---------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------|
| 2.3     |                           | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at<br>a concentration of ≥ 0,1%. | yes                      |

United Kingdom (en) Page 13 / 15



# **Safety data sheet Safety data sheet** acc. to Regulation (EC) No. 1907/2006 (REACH)

# meta-Phosphoric acid p.a., pieces

article number: CN91



| Section | Former entry (text/value)                            | Actual entry (text/value)                                  | Safety-<br>relev-<br>ant |
|---------|------------------------------------------------------|------------------------------------------------------------|--------------------------|
| 14.8    | Classification code:<br>8                            | Classification code:<br>C2                                 | yes                      |
| 15.1    | VOC content:<br>0 %<br>0 <sup>g</sup> / <sub>l</sub> | VOC content:<br>0 %                                        | yes                      |
| 15.1    |                                                      | VOC content:<br>0 <sup>9</sup> / <sub>l</sub>              | yes                      |
| 15.1    | Water Framework Directive (WFD):<br>not listed       | Water Framework Directive (WFD)                            | yes                      |
| 15.1    |                                                      | List of pollutants (WFD):<br>change in the listing (table) | yes                      |
| 15.1    |                                                      | National inventories:<br>change in the listing (table)     | yes                      |

# **Abbreviations and acronyms**

| Abbr.     | Descriptions of used abbreviations                                                                                                                                                |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADR       | Accord relatif au transport international des marchandises dangereuses par route (Agreement concern-<br>ing the International Carriage of Dangerous Goods by Road)                |
| CAS       | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                            |
| Ceiling-C | Ceiling value                                                                                                                                                                     |
| DGR       | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                        |
| EC No     | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| ED        | Endocrine disruptor                                                                                                                                                               |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)                                                                             |
| EINECS    | European Inventory of Existing Commercial Chemical Substances                                                                                                                     |
| ELINCS    | European List of Notified Chemical Substances                                                                                                                                     |
| EmS       | Emergency Schedule                                                                                                                                                                |
| GB REACH  | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)                                                                                              |
| GHS       | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                         |
| IATA      | International Air Transport Association                                                                                                                                           |
| IATA/DGR  | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                    |
| ICAO      | International Civil Aviation Organization                                                                                                                                         |
| ICAO-TI   | Technical instructions for the safe transport of dangerous goods by air                                                                                                           |
| IMDG      | International Maritime Dangerous Goods Code                                                                                                                                       |
| IMDG-Code | International Maritime Dangerous Goods Code                                                                                                                                       |
| index No  | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008                                                          |

United Kingdom (en) Page 14 / 15

acc. to Regulation (EC) No. 1907/2006 (REACH)

## meta-Phosphoric acid p.a., pieces

article number: CN91



| Abbr. | Descriptions of used abbreviations                                                                                                                                      |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50  | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval                                        |
| NLP   | No-Longer Polymer                                                                                                                                                       |
| PBT   | Persistent, Bioaccumulative and Toxic                                                                                                                                   |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals                                                                                                    |
| RID   | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| STEL  | Short-term exposure limit                                                                                                                                               |
| TWA   | Time-weighted average                                                                                                                                                   |
| VOC   | Volatile Organic Compounds                                                                                                                                              |
| vPvB  | Very Persistent and very Bioaccumulative                                                                                                                                |
| WEL   | Workplace exposure limit                                                                                                                                                |

#### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                                     |
|------|------------------------------------------|
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage.               |

## Disclaimer

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

United Kingdom (en) Page 15 / 15