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# **Phosphoric acid: Triethylamine**

03388-100ML

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

#### 1.1. Product identifier

Product name : Phosphoric acid : Triethylamine

SDS-number : 000000021853

Type of product : Mixture

Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.

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

Use of the : Laboratory chemicals

Substance/Mixture

Uses advised against : none

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

Company : Honeywell Specialty Honeywell International, Inc.

Chemicals Seelze 115 Tabor Road

GmbH Morris Plains, NJ 07950-2546

Wunstorfer Straße 40 USA

30926 Seelze Germany

Telephone : (49) 5137-999 0

For further information, : PMTEU Product Stewardship: please contact: SafetyDataSheet@Honeywell.com

# 1.4. Emergency telephone number

Emergency telephone : +1-703-527-3887 (ChemTrec-Transport)

number +1-303-389-1414 (Medical)

Country based Poison : see chapter 15.1

Control Center

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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# **REGULATION (EC) No 1272/2008**

Acute toxicity Category 4 - Inhalation

H332 Harmful if inhaled.

Skin corrosion Category 1A

H314 Causes severe skin burns and eye damage.

Specific target organ toxicity - single exposure Category 3 - Respiratory system

H335 May cause respiratory irritation.

Serious eye damage/eye irritation Category 1

H318 Causes serious eye damage.

#### 2.2. Label elements

# **REGULATION (EC) No 1272/2008**

Hazard pictograms :

| Signal word              | : | Danger             |  |
|--------------------------|---|--------------------|--|
| Hazard statements        | : | H314               | Causes severe skin burns and eye damage.   |
|                          |   | H332               | Harmful if inhaled.  |
|                          |   | H335               | May cause respiratory irritation.  |
| Precautionary statements | : | P260               | Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  |
|                          |   | P280               | Wear protective gloves/protective clothing/eye protection/face protection.   |
|                          |   | P284               | Wear respiratory protection.   |
|                          |   | P301 + P330 + P331 |  |
|                          |   | P302 + P352        | IF ON SKIN: Wash with plenty of water.   |
|                          |   | P304 + P340        | IF INHALED: Remove person to fresh air and keep 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. |

IF exposed or concerned: Get medical

advice/ attention.

P308 + P313

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Hazardous components which must be listed on the label

### 2.3. Other hazards

None known. Results of PBT and vPvB assessment, see chapter 12.5.

: triethylamine

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

# 3.2. Mixture

| Chemical name        | CAS-No.<br>Index-No.<br>REACH Registration<br>Number<br>EC-No. | Classification 1272/2008   | Concentration     | Remarks   |
|----------------------|--|--|-------------------|---|
| triethylamine        | 121-44-8<br>612-004-00-5<br>204-469-4                          | Flam. Liq. 2; H225<br>Acute Tox. 4; H302; Oral<br>Acute Tox. 3; H331;<br>Inhalation<br>Acute Tox. 3; H311; Dermal<br>Skin Corr. 1A; H314<br>Eye Dam. 1; H318<br>STOT SE 3; H335;<br>Respiratory system | >= 10 % - <= 25 % | STOT SE 3; H335:>= 1 %  |
| Orthophosphoric acid | 7664-38-2<br>015-011-00-6<br>231-633-2                         | Skin Corr. 1B; H314<br>Met. Corr. 1; H290  | >= 10 % - < 25 %  | Eye Irrit. 2; H319:10 - < 25 %<br>Skin Irrit. 2; H315:10 - < 25<br>%<br>Skin Corr. 1B; H314:>= 25 % |

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.

Occupational Exposure Limit(s), if available, are listed in Section 8. For the full text of the H-Statements mentioned in this Section, see Section 16.

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

#### 4.1 Description of first aid measures

#### General advice:

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

#### Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician immediately.

#### Skin contact:

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician immediately.

#### Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Protect unharmed eye. Call a physician immediately.

#### Ingestion:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Drink 1 or 2 glasses of water. Call a physician immediately.

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

No data available

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

No data available

See Section 11 for more detailed information on health effects and symptoms.

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#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media: Water spray Foam Dry powder Carbon dioxide (CO2)

Extinguishing media which shall not be used for safety reasons: Do not use a solid water stream as it may scatter and spread fire.

# 5.2. Special hazards arising from the substance or mixture

In case of fire hazardous decomposition products may be produced such as: Oxides of phosphorus nitrogen oxides Carbon oxides

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Unprotected persons must be kept away. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

#### 6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

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Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

### 6.4. Reference to other sections

For personal protection see section 8.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Advice on safe handling:

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

#### Hygiene measures:

Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Keep working clothes separately. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

# 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature. (Ambient temperature: > 0 < 35°C)

#### 7.3. Specific end use(s)

no additional data available

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

# 8.1. Control parameters

### Occupational exposure limits:

| Components           | Basis /<br>Value type | Value /<br>Form of exposure | Exceeding Factor | Remarks    |
|----------------------|-----------------------|-----------------------------|------------------|------------|
| Orthophosphoric acid | EH40 WEL<br>TWA       | 1 mg/m3                     |                  |            |
| Orthophosphoric acid | EH40 WEL              |                             |                  | Listed     |
| Orthophosphoric acid | EU ELV<br>TWA         | 1 mg/m3                     |                  | Indicative |
| Orthophosphoric acid | EU ELV<br>STEL        | 2 mg/m3                     |                  | Indicative |
| Orthophosphoric acid | EH40 WEL<br>STEL      | 2 mg/m3                     | 15 minutes       |            |
| Orthophosphoric acid | ME OELD<br>STEL       | 2 mg/m3                     | 15 minutes       |            |
| Orthophosphoric acid | ME OELD<br>MAC        | 1 mg/m3                     |                  |            |
| Orthophosphoric acid | XK OEL<br>STEL        | 2 mg/m3                     |                  |            |
| Orthophosphoric acid | XK OEL<br>8H TWA      | 1 mg/m3                     |                  |            |

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| triethylamine | EH40 WEL<br>TWA      | 8 mg/m3<br>2 ppm    |                                   |
|---------------|----------------------|---------------------|-----------------------------------|
| triethylamine | EH40 WEL<br>SKIN_DES |                     | Can be absorbed through the skin. |
| triethylamine | EH40 WEL<br>STEL     | 17 mg/m3<br>4 ppm   |                                   |
| triethylamine | EH40 WEL             |                     | Listed                            |
| triethylamine | EU ELV<br>SKIN_DES   |                     | Can be absorbed through the skin. |
| triethylamine | EU ELV<br>STEL       | 12,6 mg/m3<br>3 ppm | Indicative                        |
| triethylamine | EU ELV<br>TWA        | 8,4 mg/m3<br>2 ppm  | Indicative                        |

TWA - Time weighted average

STEL - Short term exposure limit

MAC - Maximum allowable concentration value: 8H TWA - 8-hour TWA:

SKIN\_DES - Skin designation:

# **DNEL/ PNEC-Values**

| Component     | End-<br>use/impact                            | Exposure duration | Value             | Exposure routes | Remarks |
|---------------|---|-------------------|-------------------|-----------------|---------|
| triethylamine | Workers /<br>Long-term<br>systemic<br>effects |                   | 8,4 mg/m3         | Inhalation      |         |
| triethylamine | Workers /<br>Acute<br>systemic<br>effects     |                   | 12,6 mg/m3        | Inhalation      |         |
| triethylamine | Workers /<br>Long-term<br>local effects       |                   | 8,4 mg/m3         | Inhalation      |         |
| triethylamine | Workers /<br>Acute local<br>effects           |                   | 12,6 mg/m3        | Inhalation      |         |
| triethylamine | Workers /<br>Long-term<br>systemic<br>effects |                   | 12,1mg/kg<br>bw/d | Skin contact    |         |

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| Orthophosphoric acid | Workers /<br>Long-term<br>systemic<br>effects   | 70 mg/m3         | Inhalation   |  |
|----------------------|---|------------------|--------------|--|
| Orthophosphoric acid | Workers /<br>Long-term<br>local effects         | 1 mg/m3          | Inhalation   |  |
| Orthophosphoric acid | Consumers /<br>Long-term<br>systemic<br>effects | 4,57 mg/m3       | Inhalation   |  |
| Orthophosphoric acid | Consumers /<br>Long-term<br>local effects       | 0,36 mg/m3       | Inhalation   |  |
| Orthophosphoric acid | Consumers /<br>Long-term<br>systemic<br>effects | 0,1mg/kg<br>bw/d | Skin contact |  |

| Component            | Environmental compartment /<br>Value | Remarks                |
|----------------------|--------------------------------------|------------------------|
| triethylamine        | Fresh water: 0,11 mg/l               | Assessment factor: 10  |
| triethylamine        | Marine water: 0,011 mg/l             | Assessment factor: 100 |
| triethylamine        | Sewage treatment plant: 100 mg/l     | Assessment factor: 10  |
| triethylamine        | Fresh water sediment: 1,575 mg/kg dw |                        |
| triethylamine        | Marine sediment: 0,158 mg/kg dw      |                        |
| triethylamine        | Soil: 0,25 mg/kg dw                  |                        |
| Orthophosphoric acid | :                                    | No hazard identified   |

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#### 8.2. Exposure controls

#### Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

#### Personal protective equipment

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection:

Glove material: Fluorinated rubber Break through time: 480 min Glove thickness: 0,7 mm

Vitoject® 890

Gloves must be inspected prior to use.

Replace when worn.

Remarks: Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recomends to use the chemical protective glove in practice not longer than 50% of the recomended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types . Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection: Safety goggles

Skin and body protection:

Protective suit

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# **Environmental exposure controls**

Handle in accordance with local environmental regulations and good industrial practices.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : liquid

Colour : No data available

Odour : characteristic

Melting point/range : No data available

Boiling point/boiling range : 89 °C

Flammability : Not applicable

Upper explosion limit : 8,0 %(V)

Lower explosion limit : 1,2 %(V)

Flash point : Not applicable

Auto-ignition temperature : 230 °C

Decomposition temperature : No decomposition if used as directed.

pH : 2,76

at 20 °C

Viscosity, kinematic : No data available

Water solubility : completely miscible

Vapour pressure : 72 hPa

Density : ca. 1,1 g/cm3

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#### 9.2 Other Information

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

Viscosity, dynamic : No data available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Stable under recommended storage conditions.

# 10.2. Chemical stability

No decomposition if used as directed.

# 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

# 10.4. Conditions to avoid

None known.

# 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as: Oxides of phosphorus Carbon oxides nitrogen oxides

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# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute oral toxicity:
Acute toxicity estimate
Value: > 2.000 mg/kg
Method: Calculation method

Acute dermal toxicity:
Acute toxicity estimate
Value: > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity:
Acute toxicity estimate
Value: 16,71 mg/l
Exposure time: 4 h

Method: Calculation method

Skin irritation:

Result: Causes severe burns.

Eve irritation:

Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation:

No data available

Repeated dose toxicity: Note: No data available

Carcinogenicity:

Species: not specified Note: No data available Germ cell mutagenicity: Note: No data available

Reproductive toxicity:
Species: not specified
Remarks: No data available

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STOT - single exposure:

Assessment: May cause respiratory irritation.

Aspiration hazard: No data available

# 11.2. Information on other hazards

Endocrine disrupting properties No data available

Other information: No data available

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Toxicity to fish: No data available

Toxicity to aquatic plants: No data available

Toxicity to aquatic invertebrates:

No data available

# 12.2. Persistence and degradability

Biodegradability: No data available

# 12.3. Bioaccumulative potential

No data available

# 12.4. Mobility in soil

No data available

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### 12.5. Results of PBT and vPvB assessment

No data available

# 12.6. Endocrine disrupting properties

No data available

#### 12.7. Other adverse effects

No data available

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product:

Dispose according to legal requirements.

Packaging.

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information:

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

For personal protection see section 8.

#### **SECTION 14: Transport information**

14.1 UN number

ADR/RID:1760 IMDG:1760 IATA:1760

14.2 UN proper shipping name

ADR/RID:CORROSIVE LIQUID, N.O.S.(PHOSPHORIC ACID, TRIETHYLAMINE) IMDG:CORROSIVE LIQUID, N.O.S.(PHOSPHORIC ACID,TRIETHYLAMINE) IATA:Corrosive liquid, n.o.s.(Phosphoric acid, Triethylamine)

14.3 Transport hazard class(es)

ADR/RID: 8 IMDG: 8 IATA: 8

14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

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14.5 Environmental hazards

ADR/RID:no Marine pollutant: no

14.6 Special precautions for user

IMDG Code segregation group (SGG1) - ACIDS,

14.7 Maritime transport in bulk according to IMO instruments

No data available

# **SECTION 15: Regulatory information**

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

| Basis                                  | Value | Remarks   |
|--|-------|---|
| Substances of very high concern (SVHC) |       | This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of ≥ 0.1 % (w/w). |
| Directive 2012/18/EC                   |       | Not applicable  |

#### **Poison Control Center**

| Country        | Phone Number                 |
|----------------|------------------------------|
| Austria        | +4314064343                  |
| Belgium        | 070 245245                   |
| Bulgaria       | (+)35929154233               |
| Croatia        | (+3851)23-48-342             |
| Cyprus         | +357 2240 5611               |
| Czech Republic | +420224919293; +420224915402 |
| Denmark        | 82121212                     |
| Estonia        |                              |
| EStoriia       | 16662; (+372)6269390         |

| Country       | Phone Number                |
|---------------|-----------------------------|
| Liechtenstein | +41 442515151               |
| Lithuania     | +370532362052               |
| Luxembourg    | 070245245; (+352)80002-5500 |
| Malta         | +356 2395 2000              |
| Netherlands   | 030-2748888                 |
| Norway        | 22591300                    |
| Poland        | +48 42 25 38 400            |
| Portugal      | 800250250                   |

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| Finland | 9471977               |
|---------|-----------------------|
| France  | +33(0)145425959       |
| Greece  | +30 210 779 3777      |
| Hungary | (+36-80)201-199       |
| Iceland | 5432222               |
| Ireland | +353(1)8092166        |
| Italy   | 0382 24444            |
|         | Berlin : 030/19240    |
|         | Bonn : 0228/19240     |
|         | Erfurt : 0361/730730  |
| Germany | Freiburg : 0761/19240 |
| Comany  | Göttingen: 0551/19240 |
|         | Homburg : 06841/19240 |
|         | Mainz : 06131/19240   |
|         | Munich : 089/19240    |
| Latvia  | +37167042473          |

| Romania         | +40 21 318 3606                             |
|-----------------|---|
| Slovakia (NTIC) | +421 2 54 774 166                           |
| Slovenia        | +386 1 400 6051                             |
| Spain           | +34915620420                                |
| Sweden          | 112 (begär<br>Giftinformation);+46104566786 |
| Switzerland     | 145   |
| United Kingdom  | (+44) 844 892 0111                          |

#### Other inventory information

US. Toxic Substances Control Act On TSCA Inventory

Australia. Industrial Chemicals Act (AIIC), as amended On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)
On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)

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On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI) On the inventory, or in compliance with the inventory

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

#### Text of H-statements referred to under heading 3

triethylamine : H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H331 Toxic if inhaled.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.H335 May cause respiratory irritation.

Orthophosphoric acid : H314 Causes severe skin burns and eye damage.

H290 May be corrosive to metals.

#### **Further information**

All directives and regulations refer to amended versions.

Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community

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CAS Chemical Abstracts Service

DNEL Derived no effect level

PNEC Predicted no effect level

vPvB Very persistent and very biaccumulative substance

PBT Persistent, bioaccmulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.