

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (2020/878)

### PowerBooster TPA

Revision date: 04.01.2024

Product code: 091608-CN

Page 1 of 9

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

### 1.1. Product identifier

PowerBooster TPA

#### Further trade names

vormals/ old name: Alk-K, pH Steiger

UFI: GJV2-20PD-C005-SJY0

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

#### Use of the substance/mixture

Electronics cleaner for spray and immersion plants

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

|                         |                               |                           |
|-------------------------|-------------------------------|---------------------------|
| Company name:           | kolb Cleaning Technology GmbH |                           |
| Street:                 | Karl-Arnold-Str. 12           |                           |
| Place:                  | D-47877 Willich               |                           |
| Telephone:              | +49-2154-947938               | Telefax: +49-2154-947947  |
| e-mail:                 | info@kolb-ct.com              |                           |
| Contact person:         | Christian Linker              | Telephone: +49-2324-97980 |
| e-mail:                 | christian.linker@kolb-ct.com  |                           |
| Internet:               | www.kolb-ct.com               |                           |
| Responsible Department: | Labor/ QS                     |                           |

### 1.4. Emergency telephone number:

+49/ (0) 23 24/ 979817 (EU)  
+61 4 19 809 805 (Australia)  
+1 970 443 9233 (USA)  
Schweiz: 145

### Further Information

|                                     |                           |
|-------------------------------------|---------------------------|
| Australia:                          | USA:                      |
| kolb Cleaning Technology AP PTY LTD | kolb USA LLC              |
| 6/150 Canterbury Road               | 410 Sunset, Unit C        |
| NSW 2200 Bankstown                  | 80501 Longmont – CO       |
| Phone: +61 2 97900273               | Phone 001- 970-532-5100   |
| Mobile +61 4 19 809 805             | Mobile: 001- 970-443-9233 |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Met. Corr. 1; H290  
Acute Tox. 4; H302  
Skin Corr. 1A; H314  
Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

##### Hazard components for labelling

potassium hydroxide; caustic potash

Signal word: Danger

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (2020/878)

### PowerBooster TPA

Revision date: 04.01.2024

Product code: 091608-CN

Page 2 of 9

#### Pictograms:



#### Hazard statements

|      |  |
|------|--|
| H290 | May be corrosive to metals.              |
| H302 | Harmful if swallowed.                    |
| H314 | Causes severe skin burns and eye damage. |

#### Precautionary statements

|                |  |
|----------------|--|
| P260           | Do not breathe dust/fume/gas/mist/vapours/spray.   |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.                                    |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |
| 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

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

| CAS No    | Chemical name                                 |              |          | Quantity    |
|-----------|---|--------------|----------|-------------|
|           | EC No   | Index No     | REACH No |             |
|           | Classification (Regulation (EC) No 1272/2008) |              |          |             |
| 1310-58-3 | potassium hydroxide; caustic potash           |              |          | 30 - < 50 % |
|           | 215-181-3                                     | 019-002-00-8 |          |             |
|           | Acute Tox. 4, Skin Corr. 1A; H302 H314        |              |          |             |

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

##### Specific Conc. Limits, M-factors and ATE

| CAS No    | EC No  | Chemical name                       | Quantity    |
|-----------|--|-------------------------------------|-------------|
|           | Specific Conc. Limits, M-factors and ATE   |                                     |             |
| 1310-58-3 | 215-181-3  | potassium hydroxide; caustic potash | 30 - < 50 % |
|           | oral: LD50 = 388 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5<br>Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2 |                                     |             |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

##### After inhalation

Provide fresh air. Medical treatment necessary.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (2020/878)

### PowerBooster TPA

Revision date: 04.01.2024

Product code: 091608-CN

Page 3 of 9

clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

#### **After contact with eyes**

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.

#### **After ingestion**

Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

No information available.

#### **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**

Co-ordinate fire-fighting measures to the fire surroundings.

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

Non-flammable.

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

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### **Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

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

##### **General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

##### **For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

##### **Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### SECTION 7: Handling and storage

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

##### **Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006 (2020/878)

**PowerBooster TPA**

Revision date: 04.01.2024

Product code: 091608-CN

Page 4 of 9

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Unsuitable container/equipment material: Metal.

**Hints on joint storage**

No special measures are necessary.

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

Electronics cleaner for spray and immersion plants

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

| CAS No    | Substance           | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category      | Origin |
|-----------|---------------------|-----|-------------------|---------------------|---------------|--------|
| 1310-58-3 | Potassium hydroxide | -   | 2                 |                     | STEL (15 min) |        |

**8.2. Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Suitable eye protection: goggles.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                               |             |                |
|-------------------------------|-------------|----------------|
| Physical state:               | Liquid      |                |
| Colour:                       | transparent |                |
| Odour:                        | neutral     |                |
| Melting point/freezing point: |             | not determined |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (2020/878)

### PowerBooster TPA

Revision date: 04.01.2024

Product code: 091608-CN

Page 5 of 9

|   |                        |
|---|------------------------|
| Boiling point or initial boiling point and boiling range: | not determined         |
| Flammability:   | not determined         |
| Lower explosion limits:                                   | not determined         |
| Upper explosion limits:                                   | not determined         |
| Flash point:  | not determined         |
| Auto-ignition temperature:                                | not determined         |
| Decomposition temperature:                                | not determined         |
| pH-Value (at 20 °C):                                      | 14                     |
| Water solubility:<br>(at 20 °C)                           | easily soluble         |
| Solubility in other solvents<br>not determined            |                        |
| Partition coefficient n-octanol/water:                    | not determined         |
| Vapour pressure:<br>(at 20 °C)                            | not determined         |
| Density (at 20 °C):                                       | 1,11 g/cm <sup>3</sup> |
| Relative vapour density:                                  | not determined         |

#### **9.2. Other information**

##### **Information with regard to physical hazard classes**

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

##### **Other safety characteristics**

Evaporation rate:

not determined

Solid content:

not determined

### SECTION 10: Stability and reactivity

#### **10.1. Reactivity**

Corrosive to metals. Possibility of hazardous reactions.

#### **10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

#### **10.3. Possibility of hazardous reactions**

Exothermic reaction with: Acid, Peroxides, Oxidizing agent.

#### **10.4. Conditions to avoid**

none

#### **10.5. Incompatible materials**

Metal. Keep away from: Acid, Oxidizing agent, Peroxides.

#### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

##### **Acute toxicity**

Harmful if swallowed.

##### **ATEmix calculated**

ATE (oral) 862,2 mg/kg

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (2020/878)

### PowerBooster TPA

Revision date: 04.01.2024

Product code: 091608-CN

Page 6 of 9

| CAS No    | Chemical name                       |                   |         |        |        |
|-----------|-------------------------------------|-------------------|---------|--------|--------|
|           | Exposure route                      | Dose              | Species | Source | Method |
| 1310-58-3 | potassium hydroxide; caustic potash |                   |         |        |        |
|           | oral                                | LD50 388<br>mg/kg |         |        |        |

#### Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

### 11.2. Information on other hazards

#### Other information

There are no other hazards that require special attention.

#### Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The product has not been tested.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

#### Further information

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (2020/878)

### PowerBooster TPA

Revision date: 04.01.2024

Product code: 091608-CN

Page 7 of 9

#### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

060204 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of bases; sodium and potassium hydroxide; hazardous waste

#### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

|  |                              |
|--|------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1814                      |
| <b>14.2. UN proper shipping name:</b>    | POTASSIUM HYDROXIDE SOLUTION |
| <b>14.3. Transport hazard class(es):</b> | 8                            |
| <b>14.4. Packing group:</b>              | III                          |
| Hazard label:                            | 8                            |
| Classification code:                     | C5                           |
| Limited quantity:                        | 5 L                          |
| Excepted quantity:                       | E1                           |
| Transport category:                      | 3                            |
| Hazard No:                               | 80                           |
| Tunnel restriction code:                 | E                            |

#### Inland waterways transport (ADN)

|  |                              |
|--|------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1814                      |
| <b>14.2. UN proper shipping name:</b>    | POTASSIUM HYDROXIDE SOLUTION |
| <b>14.3. Transport hazard class(es):</b> | 8                            |
| <b>14.4. Packing group:</b>              | III                          |
| Hazard label:                            | 8                            |
| Classification code:                     | C5                           |
| Limited quantity:                        | 5 L                          |
| Excepted quantity:                       | E1                           |

#### Marine transport (IMDG)

|  |                              |
|--|------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1814                      |
| <b>14.2. UN proper shipping name:</b>    | POTASSIUM HYDROXIDE SOLUTION |
| <b>14.3. Transport hazard class(es):</b> | 8                            |
| <b>14.4. Packing group:</b>              | III                          |
| Hazard label:                            | 8                            |
| Special Provisions:                      | 223                          |
| Limited quantity:                        | 5 L                          |
| Excepted quantity:                       | E1                           |
| EmS:                                     | F-A, S-B                     |

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

|  |                              |
|--|------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1814                      |
| <b>14.2. UN proper shipping name:</b>    | POTASSIUM HYDROXIDE SOLUTION |
| <b>14.3. Transport hazard class(es):</b> | 8                            |
| <b>14.4. Packing group:</b>              | III                          |
| Hazard label:                            | 8                            |
| Special Provisions:                      | A3 A803                      |
| Limited quantity Passenger:              | 1 L                          |
| Passenger LQ:                            | Y841                         |
| Excepted quantity:                       | E1                           |
| IATA-packing instructions - Passenger:   | 852                          |
| IATA-max. quantity - Passenger:          | 5 L                          |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (2020/878)

### PowerBooster TPA

Revision date: 04.01.2024

Product code: 091608-CN

Page 8 of 9

IATA-packing instructions - Cargo: 856

IATA-max. quantity - Cargo: 60 L

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

#### **14.6. Special precautions for user**

Warning: strongly corrosive.

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

not applicable

### **SECTION 15: Regulatory information**

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

##### **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

##### **Additional information**

Regulation (EC) No. 648/2004 [Detergents regulation]. To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

##### **National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

#### **15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

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

#### **Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration



## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (2020/878)

### PowerBooster TPA

Revision date: 04.01.2024

Product code: 091608-CN

Page 9 of 9

BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
 intérieures)  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 ICAO: International Civil Aviation Organization  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 SVHC: Substance of Very High Concern  
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety  
 assessment, chapter R.20 (Table of terms and abbreviations).

#### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Met. Corr. 1; H290  | On basis of test data    |
| Acute Tox. 4; H302  | Calculation method       |
| Skin Corr. 1A; H314 | Calculation method       |
| Eye Dam. 1; H318    | Calculation method       |

#### Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.  
 H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H318 Causes serious eye damage.

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*