

MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31 and 1272/2008/EC

H₂O Combi-DES Component B

Version: 1.0

Date of issue: 13-03-2017

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

1.1. Product identifier

| | |
|-------------------|---------------------------|
| Product name | H2O Combi-Des Component B |
| Molecular formula | Not applicable (mixture) |
| Molecular weight | Not applicable (mixture) |
| CAS number | Not applicable (mixture) |
| Chemical family | Acidifier |

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

| | |
|-------------|--|
| Product use | |
|-------------|--|

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

| | |
|---------------------------------------|---------------------|
| Company | Pantex Holland B.V. |
| Address | The Netherlands |
| Web | www.pantex.net |
| Telephone | +31 (0)497 530 680 |
| Email address of the competent person | info@pantex.net |

1.4. Emergency telephone number


| | |
|----------------------------|--------------------|
| Emergency telephone number | +31 (0)497 530 680 |
|----------------------------|--------------------|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

| | |
|---|----------------------|
| Classification according to 1272/2008/EC (EU/GHS/CLP) | GHS05 - Corrosive |
| Main Hazards | Signal word: Warning |

2.2. Label elements

| | |
|-------------------------------------|---|
| Hazard Statement |  <p>GHS05 H314 – Causes severe burns and eye damage.</p> |
| Precautionary Statement: Prevention | P280 – Wear protective gloves, protective clothing, eye protection, face protection. |

| | |
|-----------------------------------|--|
| | <p>P301+P330+P331 – IF SWALLOWED: rinse mouth. Do not induce vomiting.</p> <p>P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P363: Wash contaminated clothing before use.</p> |
| Precautionary Statement: Response | If exposed or concerned: get medical attention |
| Precautionary Statement: Disposal | P501 – Dispose of contents/container according to local/regional/national regulations on chemical waste |

2.3. Other hazards

| | |
|--|-------|
| | None. |
|--|-------|

SECTION 3: Composition/information on ingredients

3.1 Substances

| Chemical name REACH Registration number | CAS Number EINECS number | % | GHS Classification |
|---|-----------------------------|------|--------------------|
| Sodium hydrogensulphate 01-2119552465-36 | 7681-38-1 231-665-7 | > 30 | H318 |

Additional information:

The exact percentage composition of this mixture has been withheld as a trade secret. Components not listed are not hazardous or are below reportable limits.

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. For the full text of the CLP/GHS abbreviations mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|--------------|--|
| Eye contact | First prolonged rinsing water (contact lenses to be removed if this is easily done), then take to physician. |
| Skin contact | Remove contaminated clothing, rinse skin with plenty of water and immediately transport to hospital. |
| Ingestion | Rinse mouth, do not induce vomiting, take to hospital immediately. |
| Inhalation | Let sit upright, fresh air, rest and take to hospital |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|--------------|---|
| Eye contact | Caustic, redness, bad looking, pain. |
| Skin contact | Caustic, redness, pain, serious burns |
| Ingestion | Caustic, lack of breath, vomiting, blisters on lips and tongue, burning pain in mouth and throat, gullet and stomach. |
| Inhalation | Headache, dizziness, nausea, drowsiness, unconsciousness |

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|--------------------|---|
| Notes to physician | If exposed, symptomatic treatment; see also section 4.1 |
|--------------------|---|

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--|---|
| | CO ₂ , foam, powder, sprayed water |
|--|---|

5.2. Special hazards arising from the substance or mixture

| | |
|--|-------|
| | None. |
|--|-------|

5.3. Advice for firefighters

| | |
|------------------------------------|-------|
| Extinguishing agents to be avoided | None. |
|------------------------------------|-------|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|--|--|
| | Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind. Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely. |
|--|--|

6.2. Environmental precautions

| | |
|--|---|
| | Do not allow to flow into sewers or open water. |
|--|---|

6.3. Methods and material for containment and cleaning up

| | |
|------------------------------------|---|
| Measures for cleaning / collecting | Contain released substance, store into suitable containers. If possible remove by using absorbent material. |
|------------------------------------|---|

6.4. Reference to other sections

| | |
|--|--|
| | For further information check sections 8 & 13. |
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|--|-------------------------------------|
| | Handle with care to avoid spillage. |
|--|-------------------------------------|

7.2. Conditions for safe storage, including any incompatibilities

| | |
|--|--|
| | Keep in a sealed container in a closed, frost-free, ventilated room. |
|--|--|

7.3. Specific end use(s)

| | |
|--|---|
| | / |
|--|---|


SECTION 8: Exposure controls/personal information




8.1. Control parameters

Listing of the hazardous ingredients in section 3, of which the TLV (Threshold Limit Value) is known:

| | |
|-------------------|---------------------|
| Hydrochloric acid | 8 mg/m ³ |
|-------------------|---------------------|

8.2. Exposure controls

| | | |
|-----------------------|---|---|
| Inhalation protection | Use with sufficient exhaust ventilation. If necessary, use an air-purifying face mask in case of respiratory hazards. Use the ABEK type as protection against troublesome levels. |  |
| Skin protection | Handling with Viton-gloves (EN 374). Breakthrough time: >480. Material thickness: 0.7 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the | |

| | | |
|------------------|---|---|
| | outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands. |  |
| Eye protection | Keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems. |  |
| Other protection | Impermeable clothing and boots. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question. |  |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|----------------------|
| Melting point/melting range | 0 °C |
| Boiling point/boiling range | 100 °C |
| pH | 0.1 |
| pH 1% diluted in water | / |
| Vapour pressure/20 °C | 2 332 Pa |
| Vapour density | Not applicable |
| Relative density, 20 °C | 1.300 kg/l |
| Appearance/20 °C | Liquid |
| Flash point | / |
| Flammability (solid, gas) | Not applicable |
| Auto-ignition temperature | / |
| Upper flammability or explosive limit, (Vol %) | / |
| Lower flammability or explosive limit (Vol %) | / |
| Explosive properties | Not applicable |
| Oxidising properties | Not applicable |
| Decomposition temperature | / |
| Solubility in water | Completely soluble |
| Partition coefficient: n-octanol/water | Not applicable |
| Odour | Characteristic |
| Odour threshold | Not applicable |
| Dynamic viscosity, 20 °C | 1 mPa.s |
| Kinematic viscosity, 20 °C | 1 mm ² /s |
| Evaporation rate (n-BuAc=1) | 0.300 |

9.2 Other information

| | |
|----------------------------------|-----------|
| Volatile organic component (VOC) | / |
| Volatile organic component (VOC) | 0.000 g/l |

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|--|---------------------------------|
| | Stable under normal conditions. |
|--|---------------------------------|

10.2. Chemical stability

| | |
|--|-------------------------------------|
| | Extremely high or low temperatures. |
|--|-------------------------------------|

10.3. Possibility of hazardous reactions

| | |
|--|-------|
| | None. |
|--|-------|

10.4. Conditions to avoid

| | |
|--|--|
| | Protect from sunlight and do not expose to temperatures exceeding + 50 °C. |
|--|--|

10.5. Incompatible materials

| | |
|--|----------------------|
| | Oxidants, alkalines. |
|--|----------------------|

10.6. Hazardous decomposition products

| | |
|--|-------------------------------------|
| | Does not decompose with normal use. |
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|---------------------|--|
| General information | H314 – Causes severe skin burns and eye damage |
|---------------------|--|

Acute toxicity

| | |
|-------------------------------------|---|
| Calculated acute toxicity, ATE oral | / |
|-------------------------------------|---|

| | |
|---------------------------------------|---|
| Calculated acute toxicity, ATE dermal | / |
|---------------------------------------|---|

| Chemical name | End point | Route | Species | Dose |
|-------------------------|-----------|----------------|---------|---------------|
| Sodium hydrogensulphate | LD50 | Oral | Rat | 2,490 mg/kg |
| | LD50 | Dermal | Rabbit | ≥ 5,000 mg/kg |
| | LC50 | Inhalation, 4h | Rat | ≥ 50 mg/l |

SECTION 12: Ecological information

| | |
|---------------------|--|
| General information | |
|---------------------|--|

12.1. Toxicity

| | |
|--|------------------------------|
| | No additional data available |
|--|------------------------------|

12.2. Persistence and degradability

| | |
|--|------------------------------|
| | No additional data available |
|--|------------------------------|

12.3. Bioaccumulative potential

| | |
|--|------------------------------|
| | No additional data available |
|--|------------------------------|

12.4. Mobility in soil

| | |
|-------------------------|---|
| Water hazard class, WGK | 1 |
|-------------------------|---|

| | |
|---------------------|--------------------|
| Solubility in water | Completely soluble |
|---------------------|--------------------|

12.5 Results of PBT and vPvB assessment

| | |
|--|------------------------------|
| | No additional data available |
|--|------------------------------|

12.6 Other adverse effects

| | |
|--|------------------------------|
| | No additional data available |
|--|------------------------------|

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| | The product may be discharged in the indicated percentages of utilization, provided it is neutralised to pH 7. Possible restrictive regulations by local authority should always be adhered to. |
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SECTION 14: Transport information

14.1 UN number

| | |
|--|------|
| | 3264 |
|--|------|

14.2 UN proper shipping name

| | |
|--|--|
| | UN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (mixture with sodium hydrogen sulphate), 8, II (E) |
|--|--|

14.3 Transport hazard class (es)

| | |
|-------------------------------------|----|
| Class(es) | 8 |
| Identification number of the hazard | 80 |


14.4 Packing group

| | |
|--|----|
| | II |
|--|----|

14.5 Environmental hazards

| | |
|--|----------------------------------|
| | Not dangerous to the environment |
|--|----------------------------------|

14.6 Special precautions for the user

| | |
|------------------------|--|
| Hazard characteristics | Risk of burns. Risk to the aquatic environment ant the sewerage system. |
| |  |

SECTION 15: Regulatory information

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

| | |
|----------------------------------|-----------|
| Water hazard class, WGK | 1 |
| Volatile organic component (VOC) | / |
| Volatile organic component (VOC) | 0.000 g/l |
| Composition by regulation | None |

| | |
|----------------------------------|-------------------|
| (EC) 648/2004 | |
| 15.2. Chemical safety assessment | |
| | No data available |

SECTION 16: Other information

Other information

| | |
|--|--|
| Revision | First version |
| Text of GHS Classification abbreviations mentioned in Section 2 and 3 | <p>H314 – Causes severe burns and eye damage. H318 – Causes serious eye damage P280 – Wear protective gloves, protective clothing, eye protection, face 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/shower. 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. P363: Wash contaminated clothing before use.</p> |
| Other abbreviations | <p>CLP (EU-GHS): Classification Labelling Packaging (Globally Harmonized System in Europe) EC50: Half maximum effective concentration; the concentration of a substance at which 50% of its maximum response is observed LC50: Half lethal concentration; the concentration of a substance at which 50% mortality from toxicity is observed LD50: Mean lethal dose; the dose required to achieve 50% mortality from toxicity PBT: Persistent Bioaccumulative Toxic substances vPvB: very Persistent very Bioaccumulative substances</p> |

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End of Safety Data Sheet