MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC Article 31, 1272/2008/EC, and 453/2010

H_2O Combi-DES Component A

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 A
Registration number REACH	Not applicable (mixture)
Molecular formula	Not applicable (mixture)
Molecular weight	Not applicable (mixture)
CAS number active ingredient	Not applicable (mixture)
Chemical family	Oxidant

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

Product use	Chemical intermediate. No uses advised against known.

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)	Signal word: Warning GHS05 - Corrosive
Main Hazards	Warning

2.2.Label elements

Hazard Statement	 GHS05 H290 – May be corrosive to metals

	H315 – Causes skin irritation H319 – Causes serious eye irritation
Precautionary Statement: Prevention	P264 – Wash hands thoroughly after handling P280 – Wear protective gloves/protective clothing/eye protection/face protection P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 – If eye irritation persists: Get medical advice/attention.
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

Potential health effects:	No other hazards known.

SECTION 3: Composition/information on ingredients			
Chemical name **REACH registration number**	**CAS Number** **EINECS Number**	**%**	**GHS Classification/CLP**
Sodium chlorite 01-2119529240-51	7758-19-2 231-836-6	<5	H271, H301, H310, H314, H373, H400, H412

Additional information:
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

General	Always ask medical advice as soon as possible should serious or continuous disturbances occur.
Eye contact	First prolonged rinsing with water (contact lenses to be removed if this is easily done), then take to physician.
Skin contact	Remove contaminated clothing, rinse with plenty of water, if necessary seek medical attention
Ingestion	Rinse mouth with water. 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

Acute symptoms -After inhalation -After skin contact -After eye contact -After ingestion	 No effect known. Redness, pain. Redness. Diarrhoea, headache, abdominal cramps, sleepiness, vomiting.

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

Suitable extinguishing media	CO_2, foam, powder, sprayed water. None.

5.2. Special hazards arising from the substance or mixture

	None.

5.3. Advice for firefighters

Unsuitable extinguishing media	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.

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

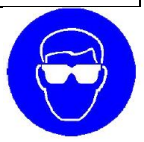
8.1. Control parameters

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

Sodium chlorite	0.28 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 nitril-gloves (EN 374). Breakthrough time: >480. Material thickness: 0.35 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

Appearance/20 °C	Liquid
Odour	Characteristic
Odour threshold	Not applicable
Melting point/melting range	0 °C
Boiling point/boiling range	100 °C
pH	10.5
pH 1% diluted in water	/
Vapour pressure/20 °C	2 332 Pa
Vapour density	Not applicable
Relative density	1.010 kg/l
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
Dynamic viscosity, 20 °C	1 mPa.s
Kinematic viscosity, 20 °C	1 mm^2/s
Evaporation rate (n=BuAc=1)	0.300
Volatile organic component (VOC	/
Volatile organic component	0.000 g/l

(VOC)	

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	
	None
10.6. Hazardous decomposition products	
	Does not decompose with normal use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General information	H315 – Causes skin irritation H319 – Causes serious eye irritation

Acute toxicity

Calculated acute toxicity, ATE oral	/
Calculated acute toxicity, ATE dermal	/

Chemical name	**End point**	**Route**	**Species**	**Dose**
Sodium chlorite	LD50	oral	rat	284 mg/kg
	LD50	dermal	rabbit	134 mg/kg
	LC50	inhalation, 4h	rat	0.5 mg/l

SECTION 12: Ecological information

General information	

12.1. Toxicity

Chemical name	**End point**	**Species**	**Dose**
Sodium chlorite	LC50	Fish (Oncorhynchus mykiss)	106mg/l
	EC50	Daphnia	< 1 mg/l
	EC50	Algae (Pseudokirchneriella)	1 mg/l

12.2. Persistence and degradability

	No additional information available

12.3. Bioaccumulative potential

	No additional information 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	
General information	

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.

SECTION 14: Transport information	

14.1 UN number

	1908

14.2 UN proper shipping name

	UN 1908 Chlorite solution, 8, III, (E)

14.3 Transport hazard class (es)

Class(es)	8
Identification number of the hazard	80

14.4 Packing group

	III

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.
Additional guidance	

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	0.000 g/l

(VOC)	
Composition by regulation (EC) 648/2004	Chlorine-base bleaching agents < 5%

15.2 Chemical Safety Assessment

	No data available

SECTION 16: Other information

Revision	First version
Text of GHS Classification abbreviations mentioned in Section 2 and 3	H271 – May cause fire or explosion; strong oxidizer H290 – May be corrosive to metals H301 – Toxic if swallowed H310 – Fatal in contact with skin H314 – Causes severe skin burns and eye damage H315 – Causes skin irritation H319 – Causes serious eye irritation H373 – May cause damage to organs through prolonged or repeated exposure H400 – Very toxic to aquatic life H412 – Harmful to aquatic life with long lasting effects P264 – Wash hands thoroughly after handling P280 – Wear protective gloves/protective clothing/eye protection/face protection P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 – If eye irritation persists: Get medical advice/attention
Other abbreviations	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: Persistant Bioaccumulative Toxic substances vPvB: very Persistant very Bioaccumulative substances

Pantex Holland B.V. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet