

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# **Cif Professional Kitchen Descaler**

Revision: 2019-06-18

Version: 04.0

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

#### **1.1 Product identifier**

**Trade name:** Cif Professional Kitchen Descaler Cif is a registered trade mark and is used under licence of Unilever

# 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: AISE-P307 - Descaling agent. Manual process AISE-P308 - Descaling agent. Spray and rinse manual process AISE-P309 - Descaling agent. Dipping process AISE-C14 - Descalers for consumer use

**Uses advised against:** Uses other than those identified are not recommended

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

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

#### **Contact details**

Unilever UK Ltd., Freepost ADM1000, London SW1A 2XX Tel: 0800 776647

Diversey Ltd Weston Favell Centre, Northampton NN3 8PD, United Kingdom Tel: 01604 405311, Fax: 01604 406809 Regulatory Email: customerservice.uk@diversey.com

# 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible) For medical or environmental emergency only: call 0800 052 0185

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Met. Corr. 1 (H290)

2.2 Label elements



Signal word: Warning.

#### Hazard statements:

H315 + H319 - Causes skin and serious eye irritation. H290 - May be corrosive to metals.

#### Precautionary statements:

P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children.

#### 2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

# SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
phosphoric acid	231-633-2	7664-38-2	01-2119485924-24	Skin Corr. 1B (H314) Met. Corr. 1 (H290)		10-20

Workplace exposure limit(s), if available, are listed in subsection 8.1.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

# SECTION 4: First aid measures

4.1 Description of first aid measures	5
Inhalation:	Get medical attention or advice if you feel unwell.
Skin contact:	Take off immediately all contaminated clothing and wash it before reuse.
Eye contact:	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Ingestion:	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
Self-protection of first aider:	Consider personal protective equipment as indicated in subsection 8.2.
4.2 Most important symptoms and e	ffects, both acute and delayed
Inhalation:	No known effects or symptoms in normal use.
Skin contact:	Causes irritation.
Eye contact:	Causes severe irritation.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

No known effects or symptoms in normal use.

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Ingestion:

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

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

No special hazards known.

#### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

# SECTION 6: Accidental release measures

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

No special measures required.

#### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

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

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

#### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

**Measures to prevent fire and explosions:** No special precautions required.

#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

Follow general hygiene considerations recognised as common good workplace practices. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

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

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep out of reach of children.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

#### 7.3 Specific end use(s)

No specific advice for end use available.

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

#### 8.1 Control parameters

# Workplace exposure limits

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
phosphoric acid	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>

Biological limit values, if available:

#### Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

#### **DNEL/DMEL and PNEC values**

# Human exposure

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
DNEL oral exposure - Consumer (mg/kg bw)				

,	effects	effects	effects	effects
phosphoric acid	-	-	-	-

#### DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
phosphoric acid	No data available	-	No data available	-

DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
phosphoric acid	No data available	-	No data available	-

#### DNEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
phosphoric acid	-	-	2.92	1

DNEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
phosphoric acid	-	-	0.73	-

# Environmental exposure

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
phosphoric acid	-	-	-	-

#### Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
phosphoric acid	-	-	-	-

#### 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the <u>undiluted</u> product: Covering activities such as filling and transfer of product to application equipment, flasks or buckets

#### Appropriate engineering controls: No Appropriate organisational controls: Avo

No special requirements under normal use conditions. Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

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Eye / face protection:	Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).
Hand protection:	Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
	Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
	Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
	In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
Body protection:	No special requirements under normal use conditions.
Respiratory protection:	No special requirements under normal use conditions.
Environmental exposure controls:	Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

#### Recommended maximum concentration (%): 25

Appropriate engineering controls:	No special requirements under normal use conditions.
Appropriate organisational controls:	No special requirements under normal use conditions.
Personal protective equipment Eye / face protection: Hand protection: Body protection: Respiratory protection:	No special requirements under normal use conditions. No special requirements under normal use conditions. No special requirements under normal use conditions. No special requirements under normal use conditions.

Environmental exposure controls:

No special requirements under normal use conditions.

# SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Information in this section refers to the product, unless it is specifically stated that substance data is listed

Physical State: Liquid Colour: Clear, Colourless Odour: Product specific Odour threshold: Not applicable pH: < 2 (neat) Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined Method / remark

ISO 4316 Not relevant to classification of this product See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
phosphoric acid	158	Method not given	1013

Method / remark

Flammability (liquid): Not flammable. Flash point (°C): not determined Sustained combustion: No (UN Manual of Tests and Criteria, section 32, L.2) Evaporation rate: Not relevant for classification of this product. Flammability (solid, gas): Not applicable to liquids Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

#### Method / remark

See substance data

Substance data,	vapour	pressure

Vapour pressure: Not determined

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
phosphoric acid	4	Method not given	20

Vapour density: Not determined Relative density: ≈ 1.11 (20 °C) Solubility in / Miscibility with Water: Fully miscible Method / remark

Not relevant to classification of this product OECD 109 (EU A.3)

Substance data	solubility	in	water	
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Ingredient(s)	Value (g/l)	Method	Temperature (°C)
phosphoric acid	Soluble		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined Decomposition temperature: Not applicable. Viscosity: Not determined Explosive properties: Not explosive. Oxidising properties: Not oxidising.

#### 9.2 Other information

Surface tension (N/m): Not determined Corrosion to metals: Corrosive

Substance data, dissociation constant, if available:

# SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

#### 10.2 Chemical stability

Stable under normal storage and use conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

#### 10.4 Conditions to avoid

None known under normal storage and use conditions.

#### **10.5 Incompatible materials**

Reacts with alkali and metals. Keep away from products containing chlorine-based bleaching agents or sulphites.

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

None known under normal storage and use conditions.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

No data is available on the mixture.

Substance data, where relevant and available, are listed below:.

#### Acute toxicity Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
phosphoric acid	LD 50	> 300-5000	Rat	OECD 423 (EU B.1 tris)	

#### Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
phosphoric acid	LD 50	2740	Rabbit	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	LC 50	850	Rat	Method not given	2

#### Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	Corrosive	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

#### Method / remark

Not relevant to classification of this product Weight of evidence

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phosphoric acid Severe damage Rabbit	Method not given	

R	espiratory tract irritation and corrosivity				
	Ingredient(s)	Result	Species	Method	Exposure time
	phosphoric acid	No data available			

# Sensitisation

Ingredient(s)	Result	Species	Method	Exposure time (h)
phosphoric acid	Not sensitising	Human	Human experience	

#### Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	No data available			

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity				
Ingredient(s)	Result (in-vitro)	Method	Result (in-vivo)	Method
		(in-vitro)		(in-vivo)
phosphoric acid	No evidence for mutagenicity, negative	OECD 471 (EU	No data available	
	test results	B.12/13) OECD		
		473 OECD 476		
		(Mouse		
		lymphoma)		

#### Carcinogenicity

Ingredient(s)	Effect
phosphoric acid	No data available

#### Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
phosphoric acid	NOAEL	Developmental toxicity	410	Rat	OECD 422, oral		No evidence for reproductive toxicity No evidence for developmental toxicity

#### Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
phosphoric acid	NOAEL	250	Rat	OECD 422, oral		

#### Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
phosphoric acid		No data available				

#### Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
phosphoric acid		No data available				

### Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
phosphoric acid			No data					
			available					

#### STOT-single exposure

Ingredient(s)	Affected organ(s)
phosphoric acid	No data available

#### STOT-repeated exposure

Ingredient(s)	Affected organ(s)
phosphoric acid	No data available

#### Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

# Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

# SECTION 12: Ecological information

# 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

# Aquatic short-term toxicity Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	LC 50	138	Gambusia affinis	Method not given	96

Aqu	uatic short-term toxicity - crustacea					
	Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
	phosphoric acid	EC 50	> 100	Daphnia magna Straus	OECD 202 (EU C.2)	48

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	EC 50	> 100	Desmodesmus	OECD 201 (EU C.3)	72
			subspicatus		

Aquatic short-term toxicity - marine species					
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
phosphoric acid		No data available			-

#### Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
phosphoric acid	EC 50	270	Activated sludge	Method not given	

# Aquatic long-term toxicity Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
phosphoric acid		No data				
		available				

#### Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
phosphoric acid		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:										
Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed				
phosphoric acid		No data available			-					

Terrestrial toxicity Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
phosphoric acid		No data			-	
		available				

#### Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
phosphoric acid		No data available			-	

#### Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	
phosphoric acid		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
phosphoric acid		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
phosphoric acid		No data available			-	

# 12.2 Persistence and degradability

Abiotic degradation Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

#### Biodegradation

F	Ready biodegradability - aerobic conditions					
	Ingredient(s)	Inoculum	Analytical	DT 50	Method	Evaluation
			method	2100		
	phosphoric acid					Not applicable (inorganic substance)

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

# 12.3 Bioaccumulative potential

Ingredient(s)	Value	Method	Evaluation	Remark
phosphoric acid	No data available		No bioaccumulation expected	

Bioconcentration factor	(BCF)				
Ingredient(s)	Value	Species	Method	Evaluation	Remark
phosphoric acid	No data available			No bioaccumulation expected	

#### 12.4 Mobility in soil

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
phosphoric acid	No data available				Potential for mobility in soil, soluble in water

#### 12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

#### 12.6 Other adverse effects

No other adverse effects known.

# SECTION 13: Disposal considerations

13.1 Waste treatment methods	The concentrated contents or contaminated packaging should be disposed of by a certified handler
Waste from residues / unused	or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging
products:	material is suitable for energy recovery or recycling in line with local legislation.
European Waste Catalogue:	20 01 29* - detergents containing dangerous substances.
Empty packaging Recommendation: Suitable cleaning agents:	Dispose of observing national or local regulations. Water, if necessary with cleaning agent.

# **SECTION 14: Transport information**



Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR) 14.1 UN number: 1805 14.2 UN proper shipping name: Phosphoric acid, solution 14.3 Transport hazard class(es): Transport hazard class (and subsidiary risks): 8 14.4 Packing group: III 14.5 Environmental hazards: Environmentally hazardous: No Marine pollutant: No 14.6 Special precautions for user: None known. 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers. Other relevant information: ADR Classification code: C1 Tunnel restriction code: F Hazard identification number: 80 IMO/IMDG EmS: F-A. S-B The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

# **SECTION 15: Regulatory information**

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

#### EU regulations:

Regulation (EC) No. 1907/2006 - REACH

Regulation (EC) No 1272/2008 - CLP

• Regulation (EC) No. 648/2004 - Detergents regulation

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

#### UFI: 8CV6-H0SH-Q00P-GQJ3

#### Ingredients according to EC Detergents Regulation 648/2004

non-ionic surfactants

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

< 5 %

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

# SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

#### SDS code: MSDS8039

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 1, 2, 8, 16

#### **Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

#### Full text of the H and EUH phrases mentioned in section 3:

H290 - May be corrosive to metals.

H303 - May be harmful if swallowed.

• H314 - Causes severe skin burns and eye damage.

Abbreviations and acronyms:

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- · AISE The international Association for Soaps, Detergents and Maintenance Products
- DNEL Derived No Effect Limit

- EVEL Derived No Effect Limit
  EUH CLP Specific hazard statement
  PBT Persistent, Bioaccumulative and Toxic
  PNEC Predicted No Effect Concentration
  REACH number REACH registration number, without supplier specific part
  vPvB very Persistent and very Bioaccumulative
  ATE Acute Toxitity Estimate
- ATE Acute Toxicity Estimate LD50 Lethal Dose, 50% / Median Lethal dose
- LD50 Lethal Dose, 50% / Median Lethal dose
  LC50 Lethal Concentration, 50% / Median Lethal Concentration
  EC50 effective concentration, 50%
  NOEL No observed effect level
  NOAEL No observed adverse effect level
  OECD Organization for Economic Cooperation and Development

#### End of Safety Data Sheet