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to whom it may concern

Mainz, 27.01.2020

Surface and hand disinfection against Corona virus

Dear Sir or Madam,

Corona viruses belong to the enveloped viruses.

The use of all of our "limited virucidal" disinfectants according to the dosage / exposure time stated is sufficient for disinfection.

The higher-rated virucidal levels "limited virucidal PLUS" and "virucidal" are of course also suitable.

According to EN 14476, the limited virucidal activity corresponds to the effectiveness against vaccinia virus.

If an older dose specification only shows the effectiveness against vaccinia according to EN 14476, the corresponding dose / time correlation is synonymous with the limited virucidal activity.

We therefore can recommend the use of following products:

Surface & floor disinfection in medical areas:

APESIN combi DR

APESIN rapid

APESIN AP 100 plus

APESIN san (for sanitary areas)

APESIN spray F

APESIN multi Quick & Easy

Surface & floor disinfection in food processing areas:

APESIN combi DR

APESIN rapid

APESIN food

APESIN kitchen Quick & Easy

APESIN spray F

Hand disinfection & surgical hand disinfection

APESIN handactive F

Don't hesitate to contact us in case of any question.

Yours sincerely



i.A. Jeanette Henriksen
Customer Service



i.A. Isabelle Kilic
Product Management

APESIN KDR food

Acidic disinfecting kitchen cleaner

- 2 in 1
- High performance
- Tested and registered

Product profile

- APESIN KDR food is the ideal solution for cleaning and disinfection in one step in food processing areas.
- It is based on a special acidic combination which allows an effective removal of stubborn greasy, protein and dirt deposits as well as microbial soiling.
- Easy and effortless removal of scale, lime, lime soap deposits, and deposits in dairies, bakeries, breweries, wineries and any other food processing areas.
- The spectrum of activity of APESIN KDR food has been tested and proved according to the European EN standards and listed in the German IHO list for pet keeping and food production.
- APESIN KDR food leaves no residues.

Area of application

- For all canteen kitchens as well as kitchens of health facilities, restaurants and food processing industry.
- Suitable for all acid resistant surfaces and equipment made of stainless steel, plastic, ceramic, porcelain, varnished wood or metal.
- Do not apply on calcareous stone floors or any other acid sensitive materials in processing industry.

Ingredients:

Ingredients per 100g:
5,6g LACTIC ACID, 5 - <15% anionic surfactants



Application and dosing



Dose in relation to application and degree of soil. Follow below instructions.




Ideal for application on surfaces in kitchen areas.



Foam application: can be used in foam machines



20 ml/L - conc.

	Dosing	Exposure time
EN 1276 bactericidal, low organic load	0,25%	5 min
EN 1276 bactericidal, high organic load	2%	15 min
EN 1650 levurocidal, low organic load	2,5%	5 min
EN 1650 levurocidal, high organic load	5%	15 min
EN 13697 bactericidal, low organic load	2%	5 min
EN 13697 bactericidal, high organic load	6%	15 min
EN 13697 levurocidal, low organic load	2%	5 min
EN 13697 levurocidal, high organic load	25%	15 min
Effective against all enveloped viruses, method DVV	2%	5 min

Sustainable development and production:



Product safety, storage and environmental instructions

Safety: For professional use only. For further information, see Safety Data Sheet. Use biocides safely. Always read the label and product information before use.

Storage: Store at room temperature in the original container.

Environmental: Only give completely emptied packaging to special waste disposer.

Sales units:

Order No. 713157 10 x 1 L
Order No. 709819 10 L

Your trusted partner on site:

pH-value:





APESIN KDR FOOD 10 X 1 L D

WM 0713157

Order number: 0713157

Version 4.0

Revision Date 21.03.2019

Print Date 31.07.2019

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

1.1 Product identifier

Trade name : APESIN KDR FOOD 10 X 1 L D
Identification number : 61184

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

Use of the Substance/Mixture : Biocidal product
Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : tana Chemie GmbH
Rheinallee 96
55120 Mainz
Telephone : +49613196403
Telefax : +4961319642414
E-mail address : Produktsicherheit@werner-mertz.com
Responsible/issuing person :
Contact person : Product development / product safety

1.4 Emergency telephone number

+49(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1 H290: May be corrosive to metals.

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.



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	H315	Causes skin irritation.
	H318	Causes serious eye damage.
Precautionary statements	: P102	Keep out of reach of children.
	Prevention:	
	P260	Do not breathe spray.
	P280	Wear protective gloves/ eye protection/ face protection.
	Response:	
	P302 + P352	IF ON SKIN: Wash with plenty of water.
	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.
	Disposal:	
	P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

l-(+)-lactic acid

Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous solution of biocides

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Phosphoric acid	7664-38-2 231-633-2 01-2119485924-24	Skin Corr. 1B; H314 Met. Corr. 1; H290 SCL ≥ 25 % 1B; H314 10 - < 25 % 2; H315 10 - < 25 % 2; H319	≥ 15 - < 20



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Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6 270-407-8 01-2119513401-57	Skin Irrit. 2; H315 Eye Dam. 1; H318 SCL >= 5 % 2; H315 > 5 - 38 % 2; H319 > 38 % 1; H318	>= 5 - < 10
l-(+)-lactic acid	79-33-4 201-196-2 01-2119474164-39	Skin Irrit. 2; H315 Eye Dam. 1; H318 SCL >= 10 % 2; H315 >= 3 % 1; H318 1 - < 3 % 2; H319	>= 5 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Protect unharmed eye.
Continue rinsing eyes during transport to hospital.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : corrosive effects
Irritation
- Risks : No information available.



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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Neutralize with chalk, alkali solution or ammonia.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections



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For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not 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 container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container.
- Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : Biocidal product

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Phosphoric acid	7664-38-2	TWA	1 mg/m ³	2009-12-19	2000/39/EC
Further information	:	Indicative			
Phosphoric acid	7664-38-2	STEL	2 mg/m ³	2009-12-19	2000/39/EC
Further information	:	Indicative			

DNEL



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**Phosphoric acid
7664-38-2:**

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 1 mg/m3

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 0,36 mg/m3

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 2 mg/m3

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 10,7 mg/m3

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 4,57 mg/m3

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 0,1 mg/kg

**Sulfonic acids, C14-16-alkane
hydroxy and C14-16-alkene,
sodium salts
68439-57-6:**

: End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term exposure, Systemic effects
Value: 2158,33 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term exposure, Systemic effects
Value: 152,22 mg/m3

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term exposure, Systemic effects
Value: 1295 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term exposure, Systemic effects
Value: 45,04 mg/m3

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term exposure, Systemic effects
Value: 12,95 mg/kg



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PNEC

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6:	: Fresh water Value: 0,042 mg/l
	Marine water Value: 0,0042 mg/l
	Fresh water sediment Value: 2,025 mg/l
	Marine sediment Value: 0,2025 mg/l
	Soil Value: 0,0061 mg/l
	STP Value: 4 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : If splashes are likely to occur, wear:
Tightly fitting safety goggles

Hand protection

Material : For prolonged or repeated contact use protective gloves.
It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1: 2003 (0,4 mm).
As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
not required under normal use

Respiratory protection : Not required; except in case of aerosol formation.
Recommended Filter type:
ABEK-P3-filter

Environmental exposure controls



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General advice : Try to prevent the material from entering drains or water courses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: light yellow, clear
Odour	: characteristic
Odour Threshold	: No data available
pH	: ca. 0,5
Melting point/range	: No data available
Boiling point/boiling range	: No information available.
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Flammability (liquids)	: No data available
Burning rate	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 1,13 g/cm ³
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
acid reserve	: 9,3 g/100g
Explosive properties	: No data available
Oxidizing properties	: No data available



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9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions., No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions., No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.
Other information : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

Skin corrosion/irritation : Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation : May cause irreversible eye damage.

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity : Not Rated

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.



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STOT - repeated exposure	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration toxicity	: Not Rated
Further information	: No data available

Components:

Phosphoric acid

7664-38-2:

Acute oral toxicity	: LD50 Oral Rat: 1.530 mg/kg LD50 Oral Rat: 2.600 mg/kg
Acute inhalation toxicity	: LC50 Rat: 0,21 mg/l Exposure time: 4 h LC50 Rat: 850 mg/l Exposure time: 2 h
Acute dermal toxicity	: LD50 Rabbit: 2.740 mg/kg
Skin corrosion/irritation	: Species: Rabbit Exposure time: 24 h Result: Corrosive
Serious eye damage/eye irritation	: Species: Rabbit Result: Corrosive
Repeated dose toxicity	: Rat: NOAEL: 250 mg/kg Application Route: Oral Method: OECD 422

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

68439-57-6:

Acute oral toxicity	: LD50 Oral Rat: > 2.000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50 Rat: 52 mg/l Exposure time: 4 h Method: OECD Test Guideline 403
Acute dermal toxicity	: LD50 Dermal Rabbit: 6.300 mg/kg Method: OECD Test Guideline 402



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Skin corrosion/irritation	: Species: Rabbit Result: Irritating to skin. Method: OECD Test Guideline 404
Serious eye damage/eye irritation	: Species: Rabbit Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405
Respiratory or skin sensitisation	: Species: Guinea pig Result: Did not cause sensitisation on laboratory animals. Method: OECD Test Guideline 406
Repeated dose toxicity	: Rat: NOAEL: 259 mg/kg Application Route: Dermal Exposure time: 2 Years

I-(+)-lactic acid

79-33-4:

Acute oral toxicity	: LD50 Mouse: 4.875 mg/kg LD50 Oral Guinea pig: 1.810 mg/kg LD50 Oral Rat, female: 3.543 mg/kg LD50 Oral Rat, male: 4.936 mg/kg
Acute inhalation toxicity	: LC50 Rat, male and female: 7,94 mg/l Exposure time: 4 h
Acute dermal toxicity	: LD50 Rabbit: > 2.000 mg/kg
Skin corrosion/irritation	: Species: Rabbit Result: Irritating to skin.
Serious eye damage/eye irritation	: Species: Chicken eye Result: Causes serious eye damage.
Respiratory or skin sensitisation	: Species: Guinea pig Result: Not a skin sensitizer.
Repeated dose toxicity	: Rat: LOAEL: 886 mg/kg Application Route: Dermal



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NOAEL: 5.000 mg/l

Application Route: Oral

SECTION 12: Ecological information

12.1 Toxicity

Components:

Phosphoric acid

7664-38-2:

Toxicity to fish	: LC0 (Gambusia affinis (Mosquito fish)): 138 mg/l Exposure time: 96 h
	LC50 (Lepomis macrochirus (Bluegill sunfish)): 3 - 3,25 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): 100 - 1.000 mg/l Exposure time: 96 h
	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
	NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to bacteria	: EC50 (activated sludge): 270 mg/l
	EC50 (activated sludge): > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

68439-57-6:

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 4,2 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: (Daphnia magna (Water flea)): 4,53 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	: (Skeletonema costatum (marine diatom)): 5,2 mg/l



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	Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to bacteria	: EC50 (Bacteria): 230 mg/l Method: OECD Test Guideline 209
Plant toxicity	: 2025 mg/l Duration: 10 d
I-(+)-lactic acid 79-33-4:	
Toxicity to fish	: LC50 (Lepomis macrochirus (Bluegill sunfish)): 130 mg/l Exposure time: 96 h LC50 (Danio rerio (zebra fish)): 320 mg/l Exposure time: 48 h LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l Exposure time: 96 h LC50 (Danio rerio (zebra fish)): 195 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 130 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes EC50 (Daphnia pulex (Water flea)): 240 mg/l Exposure time: 48 h EC50 (Daphnia magna (Water flea)): 250 mg/l Exposure time: 48 h
Toxicity to algae	: EC50 (Scenedesmus capricornutum (fresh water algae)): 3.500 mg/l ErC50 (Pseudokirchneriella subcapitata (microalgae)): 2.800 mg/l Exposure time: 72 h EC50 (Pseudokirchneriella subcapitata (algae)): > 2.800 mg/l Exposure time: 72 h NOEC (Pseudokirchneriella subcapitata (green algae)): 1.900 mg/l Exposure time: 70 h
Toxicity to bacteria	: EC50 (activated sludge): > 100 mg/l Exposure time: 3 h
Toxicity to fish (Chronic toxicity)	: Lowest Observed Effect Concentration: 2,18 mg/l Exposure time: 90 d Species: Fish
Toxicity to terrestrial organisms	: LC50: 2.250 mg/kg> Exposure time: 14 d



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Species: *Colinus virginianus* (Bobwhite quail)

12.2 Persistence and degradability

Components:

Phosphoric acid

7664-38-2:

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

68439-57-6:

Biodegradability : Biodegradation: > 80 %
Method: OECD 301 B
Remarks: According to the results of tests of biodegradability this product is considered as being readily biodegradable.

Chemical Oxygen Demand (COD) : 790 mg/g

Dissolved organic carbon (DOC) : 190 mg/g

l-(+)-lactic acid

79-33-4:

Biodegradability : Result: rapidly biodegradable

Biochemical Oxygen Demand (BOD) : 450 mg/g
Incubation time: 5 d

600 mg/g
Incubation time: 20 d

Chemical Oxygen Demand (COD) : 900 mg/g

ThOD : 1.067 mg/g

12.3 Bioaccumulative potential

Components:

Phosphoric acid

7664-38-2:

Partition coefficient: n-octanol/water : log Pow: -0,77

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be



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either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

Components:

Phosphoric acid

7664-38-2:

Assessment

: This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

12.6 Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
- Waste Code : European Waste Catalogue
07 06 99
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number

ADR : 1903
IMDG : 1903
IATA : 1903

14.2 Proper shipping name

ADR : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(phosphoric acid)

IMDG : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Phosphoric acid)

IATA : Disinfectant, liquid, corrosive, n.o.s. Not permitted for transport

14.3 Transport hazard class



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ADR : 8
IMDG : 8
IATA : 8

14.4 Packing group

ADR

Classification Code : C9
Packaging group : III
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

IMDG

Packaging group : III
Labels : 8
EmS Number : F-A, S-B

IATA

(Cargo) : Disinfectant, liquid, corrosive, n.o.s. Not permitted for transport
Packaging group : III
Labels : 8

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

: Directive 96/82/EC does not apply



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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. TA Luft List (Germany)	: Not applicable
	: Total dust: Not applicable
	: Inorganic substances in powdered form: Not applicable
	: Inorganic substances in vapour or gaseous form: Not applicable
	: Organic Substances: Not applicable
	: Carcinogenic substances: Not applicable
	: Mutagenic: Not applicable
	: Toxic to reproduction: Not applicable
Volatile organic compounds (VOC) content	: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Update: Percent volatile: 5,64 % 291,82 g/l VOC content excluding water
Volatile organic compounds (VOC) content	: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Update: Percent volatile: 5,64 % 63,68 g/l VOC content valid only for coating materials used on wood surfaces
according to Detergents Regulation EC 648/2004	: 5 - <15% Anionic surfactants, LACTIC ACID
GISBAU (D)	: GD 0

15.2 Chemical safety assessment

There is no data available for this product.

SECTION 16: Other information

Full text of H-Statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.

Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Classification procedure:	H290	Calculation method
	H315	Calculation method
	H318	Calculation method



Werner & Mertz
Professional

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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.

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