



WC GEL

WM 0713117

Order number: 0713117

Version 2.2

Revision Date 05.02.2021

Print Date 11.08.2022

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

1.1 Product identifier

Trade name : WC GEL
Identification number : 62919

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

Use of the Substance/Mixture : Cleaning agent
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

112
Centru za kontrolu otrovanja u Zagrebu na tel. (01) 2348 342
+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 corrosion, Category 1A H314: Causes severe skin burns and eye damage.
Specific target organ toxicity - single exposure, Category 3, Respiratory system H335: May cause respiratory irritation.

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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	H314	Causes severe skin burns and eye damage.
	H335	May cause respiratory irritation.
Precautionary statements	: P102	Keep out of reach of children.
	Prevention:	
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response:	
	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.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
	P310	
	Disposal:	
	P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

hydrogen chloride
orthophosphoric acid
(Z)-2,2'-(octadec-9-enylimino)bisethanol

Additional Labelling:

Safety data sheet available on request.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous solution

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
hydrogen chloride	7647-01-0 231-595-7 01-2119484862-27	Skin Corr. 1B; H314 STOT SE 3; H335 Met. Corr. 1; H290 SCL ≥ 25 % 1B; H314 10 - < 25 % 2; H315 10 - < 25 % 2; H319 ≥ 10 % 3; H335 ≥ 0,1 %;	≥ 10 - < 15



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orthophosphoric 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	>= 2 - < 3
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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.

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



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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 :

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 : Do not flush into surface water or sanitary sewer system.

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

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.

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.



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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) : Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
hydrogen chloride	7647-01-0	TWA	5 ppm 8 mg/m ³	2000-06-16	2000/39/EC
Further information	:	Indicative			
hydrogen chloride	7647-01-0	STEL	10 ppm 15 mg/m ³	2000-06-16	2000/39/EC
Further information	:	Indicative			
orthophosphoric acid	7664-38-2	TWA	1 mg/m ³	2000-06-16	2000/39/EC
Further information	:	Indicative			
orthophosphoric acid	7664-38-2	STEL	2 mg/m ³	2000-06-16	2000/39/EC
Further information	:	Indicative			

DNEL

hydrogen chloride
7647-01-0:

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 15 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 8 mg/m³

orthophosphoric acid
7664-38-2:

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



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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

PNEC

hydrogen chloride
7647-01-0:

: Fresh water
Value: 36 µg/l

Marine water
Value: 36 µg/l

intermittent release
Value: 45 µg/l

STP
Value: 36 µg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

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.
Remove and wash contaminated clothing before re-use.



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

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : blue

Odour : characteristic

Odour Threshold : No data available

pH : 0

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. 1,068 g/cm³

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 : ca. 400 mPa.s

Viscosity, kinematic : No data available

acid reserve : 13,9 g/100g



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Explosive properties : No data available
Oxidizing properties : No data available

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

Our company is strongly against animal testing.
Our company does not place any orders for animal testing for the finished product or the ingredients.
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

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



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- STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- 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:
hydrogen chloride
7647-01-0:

- Acute oral toxicity : LD50 Oral Rabbit: > 5.010 mg/kg
LD50 Rabbit: 900 mg/kg
- Acute inhalation toxicity : LC50 Rat: 4.700 mg/l
Exposure time: 30 min
Test substance: anhydrous substance
LC50 Rat: 4,74 mg/l
Exposure time: 1 h
- Acute dermal toxicity : LD50 Rabbit: > 5.010 mg/kg
- Skin corrosion/irritation : Species: Rabbit
Exposure time: 4 h
Result: Corrosive
- Serious eye damage/eye irritation : Species: Rabbit
Result: Corrosive
Method: OECD Test Guideline 405
- Respiratory or skin sensitisation : Test Method: Maximisation Test
Species: Guinea pig
Result: Does not cause skin sensitisation.

orthophosphoric 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



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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

SECTION 12: Ecological information

12.1 Toxicity

Product:

Components:

hydrogen chloride
7647-01-0:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 24,6 mg/l
Exposure time: 96 h

LC50 (Leuciscus idus (Golden orfe)): 862 mg/l
Exposure time: 48 h

LC50 (Fish): 282 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,492 mg/l
Exposure time: 48 h

EC50 (Daphnia (water flea)): 56 mg/l
Exposure time: 72 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,78 mg/l
Exposure time: 72 h

Toxicity to bacteria : (see user defined free text): 0,78 mg/l
Exposure time: 72 h

orthophosphoric 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 : EC50 (Daphnia (water flea)): 100 - 1.000 mg/l



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aquatic invertebrates	: 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

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Components:

hydrogen chloride 7647-01-0:

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

orthophosphoric acid 7664-38-2:

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

12.3 Bioaccumulative potential

Components:

hydrogen chloride 7647-01-0:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

orthophosphoric acid 7664-38-2:

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

12.4 Mobility in soil

Components:

hydrogen chloride



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7647-01-0:
Stability in soil : Remarks: Will not adsorb on soil.

12.5 Results of PBT and vPvB assessment

Components:

hydrogen chloride

7647-01-0:

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)..

orthophosphoric 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.
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

ADR : 3264
IMDG : 3264
IATA : 3264

14.2 Proper shipping name

ADR : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(hydrochloric acid, (Z)-2,2'-(octadec-9-enylimino)bisethanol)

IMDG : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(hydrochloric acid, (Z)-2,2'-(octadec-9-enylimino)bisethanol)

IATA : Corrosive liquid, acidic, inorganic, n.o.s. Not permitted for transport

14.3 Transport hazard class

ADR : 8
IMDG : 8
IATA : 8

14.4 Packing group



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ADR

Classification Code : C1
Packaging group : II
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

IMDG

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

IATA

(Cargo) : Corrosive liquid, acidic, inorganic, n.o.s. Not permitted for transport
Packaging group : II
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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
16	Hydrogen chloride (liquefied gas)	25 000067	250 000067

TA Luft List (Germany) : 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 1999/13/EC
Update: Percent volatile: 12,09 %
1.268,33 g/l
VOC content excluding water



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Volatile organic compounds (VOC) content : Directive 1999/13/EC
Update: Percent volatile: 12,09 %
129,1 g/l
VOC content valid only for coating materials used on wood surfaces

according to Detergents Regulation EC 648/2004 : <5% Cationic surfactants, Perfumes

GISBAU (D) : GS 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.
H335 May cause respiratory irritation.

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
	H314	On basis of test data.
	H335	Calculation method

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



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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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