Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.12.2022 *Version number 2* *Revision: 10.12.2022*

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

- **1.1 Product identifier**

- **Trade name Epex Wash**

- **Article number:** H1001085921000
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Cleaning agent / Cleaner

- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
epex
Gutenbergstrasse 12
D-73760 Ostfildern
Tel.: +49 (0) 711 22086751
Fax: +49 (0) 711 22086752
www.epex.de
email: mail@epex-info.de
- **Informing department:** Product safety department
- **1.4 Emergency telephone number:**
Poison Control Center, Mainz
Tel. 00 49 / 61 31 / 19 240

NZ Supplier
Robert Ziegler 2021 Limited
Tel : 027 4960 731
Fax : 09 818 8315
Email : rziegler2017@outlook.com

NZ National Poisons Centre
0800 764 766 (24 hours)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Met. Corr.1 H290 May be corrosive to metals.
Skin Corr. 1A H314 Causes severe skin burns and eye damage.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
C; Corrosive
R34: Causes burns.
- **Classification system:**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

GHS05

- **Signal word** Danger
- **Hazard statements**
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**
P261 Avoid breathing mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.12.2022 *Version number 2* *Revision: 10.12.2022*

(Contd. of page 1)

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P390 Absorb spillage to prevent material damage.

- ***2.3 Other hazards***
- ***Results of PBT and vPvB assessment***
- ***PBT:*** *Not applicable.*
- ***vPvB:*** *Not applicable.*

SECTION 3: Composition/information on ingredients

- ***3.2 Mixtures***
- ***Description:*** *Mixture of the substances listed below with harmless additions (aqueous solution).*

- ***Dangerous components:***

CAS: 64-18-6 *EINECS: 200-579-1* *Reg.nr.: 01-2119491174-37*	*formic acid* *T R23; C R35; Xn R22* *R10* *Flam. Liq. 3, H226; Acute Tox. 3, H331; Met. Corr.1, H290; Skin Corr. 1A, H314; Acute Tox. 4, H302*	*2.5-10%*
CAS: 7647-01-0 *EINECS: 231-595-7* *Reg.nr.: 01-2119484862-27*	*hydrochloric acid* *C R34; Xi R37* *Met. Corr.1, H290; Skin Corr. 1B, H314; STOT SE 3, H335*	*2.5-10%*

- ***Additional information*** *For the wording of the listed risk phrases refer to section 16.*

SECTION 4: First aid measures

- ***4.1 Description of first aid measures***
- ***General advice:*** *Instantly remove any clothing soiled by the product.*
- ***After inhalation***
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness bring patient into stable side position for transport.
- ***After skin contact***
Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.
- ***After eye contact*** *Rinse immediately opened eye for several minutes under running water. Then consult doctor.*
- ***After swallowing*** *Do not induce vomiting. Drink plenty of water. Call for medical help.*
- ***4.2 Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*
- ***Information for doctor***
In case of oral ingestion do not use sodium hydrogencarbonate (NaHCO3) or calcium carbonate (CaCO3)for neutralization, since developing carbon dioxide may cause perforation of the stomach. Drink suspension of magnesia in water.
- ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.12.2022 *Version number 2* *Revision: 10.12.2022*

(Contd. of page 2)

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Thermal decomposition can lead to release of irritating gases and vapours
Can be released in case of fire:
carbon monoxide (CO)
Hydrogen chloride (HCl)
- **5.3 Advice for firefighters**
- **Protective equipment:**
See section 8.
Wear full protective suit with self-contained breathing apparatus.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Endangered containers in the surrounding area should be cooled with a water-hose.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep off unprotected persons
Avoid contact with skin, eyes and clothing. Do not breathe vapour. Ventilate contaminate area thoroughly. Shut off lecks, if possible without personal risk.
- **6.2 Environmental precautions:**
Dilute with much water.
Do not allow to enter drainage system, surface or ground water.
If large amounts are released, the authorities must be informed.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Ensure adequate ventilation.
Contaminated material has to be disposed as waste (see item 13).
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Prevent formation of aerosols.
Avoid contact with eyes and skin.
- **Information about protection against explosions and fires:** Pay attention to general rules of internal fire prevention.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage** Keep containers tightly closed. Store in cool, dry conditions.
- **Requirements to be met by storerooms and containers:**
Observe official regulations on storage and handling of water harzardous substances
- **Information about storage in one common storage facility:** Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:** Keep container tightly sealed.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.12.2022 *Version number 2* *Revision: 10.12.2022*

(Contd. of page 3)

- **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** *No further data; see item 7.*

- **8.1 Control parameters**

- **Components with critical values that require monitoring at the workplace:**	
34590-94-8 (2-methoxymethylethoxy)propanol (10-25%)	
WEL	Long-term value: 308 mg/m³, 50 ppm Sk
64-18-6 formic acid (2.5-10%)	
WEL	Long-term value: 9.6 mg/m³, 5 ppm
7647-01-0 hydrochloric acid (2.5-10%)	
WEL	Short-term value: 8 mg/m³, 5 ppm Long-term value: 2 mg/m³, 1 ppm (gas and aerosol mists)

- **Additional information:** *The lists that were valid during the compilation were used as basis.*

- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**

Keep away from food, beverages and fodder.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Gases, fumes and aerosols should not be inhaled.

- **Breathing equipment:** *Not necessary if room is well-ventilated.*
- **Protection of hands:**

Protective gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** *Tightly sealed safety glasses.*
- **Body protection:**

Standard proctective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear inpenetrable protective clothing against this solvent.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form: *Fluid*

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.12.2022 *Version number 2* *Revision: 10.12.2022*

(Contd. of page 4)

Colour:	Colourless
- **Smell:**	Pungent
- **Odour threshold:**	Not determined.
- **pH-value at 20 °C:**	ca. 1
- **Change in condition**	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	100 °C
- **Flash point:**	Product is non-flammable nor potentially explosive
- **Inflammability (solid, gaseous)**	Not applicable.
- **Ignition temperature:**	
Decomposition temperature:	Not determined.
- **Self-inflammability:**	Product is not selfigniting.
- **Danger of explosion:**	Product is not potentially explosive
- **Critical values for explosion:**	
Lower:	Not determined.
Upper:	Not determined.
- **Vapour pressure at 20 °C:**	23 hPa
- **Density at 20 °C**	1.041 g/cm³
- **Relative density**	Not determined.
- **Vapour density**	Not determined.
- **Evaporation rate**	Not determined.
- **Solubility in / Miscibility with**	
Water:	Fully miscible
- **Partition coefficient (n-octanol/water):**	Not determined.
- **Viscosity:**	
dynamic:	Not determined.
kinematic:	Not determined.
- **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with base metals forming hydrogen
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
strong oxidizing agents
Bases, base metal
- **10.6 Hazardous decomposition products:**
Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.12.2022 *Version number 2* *Revision: 10.12.2022*

(Contd. of page 5)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Corrosive effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitisation:** No sensitizing effect known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Corrosive

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key number:**
Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- **Uncleaned packagings:** Disposal must be made according to official regulations.
- **Recommendation:**
After complete emptying and cleaning, send to be reconditioned or recycled.
Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.12.2022 *Version number 2* *Revision: 10.12.2022*

(Contd. of page 6)

- ***Recommended cleaning agent:*** *Water, if necessary with cleaning agent.*

SECTION 14: Transport information

- ***14.1 UN-Number***	
- ***ADR, IMDG, IATA***	*UN1760*
- ***14.2 UN proper shipping name***	
- ***ADR***	*1760 CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID, FORMIC ACID)*
- ***IMDG, IATA***	*CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID, FORMIC ACID)*
- ***14.3 Transport hazard class(es)***	
- ***ADR***	
- ***Class***	*8 (C9) Corrosive substances.* *Corrosive substances.*
- ***Label***	*8*
- ***IMDG, IATA***	
- ***Class***	*8 Corrosive substances.*
- ***Label***	*8*
- ***14.4 Packing group***	
- ***ADR, IMDG, IATA***	*III*
- ***14.5 Environmental hazards:***	*Not applicable.*
- ***Marine pollutant:***	*No*
- ***14.6 Special precautions for user***	*Warning: Corrosive substances.*
- ***Kemler Number:***	*80*
- ***EMS Number:***	*F-A,S-B*
- ***Segregation groups***	*Acids*
- ***14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code***	*Not applicable.*
- ***UN "Model Regulation":***	*UN1760, CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID, FORMIC ACID), 8, III*

SECTION 15: Regulatory information

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

- ***National regulations***

- ***Information about limitation of use:*** *Employment restrictions concerning young persons must be observed.*
- ***Technical instructions (air):***

Class	Share in %
I	2,5-10
NK	10-25

- ***Water hazard class:***
Water hazard class 1 (self assessment according to German VwVwS (Regulations for water-hazardous substances): slightly hazardous for water.

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.12.2022 *Version number 2* *Revision: 10.12.2022*

(Contd. of page 7)

- ***15.2 Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- ***Relevant phrases***

Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.
H226 Flammable liquid and vapour.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.

R10 Flammable.
R22 Harmful if swallowed.
R23 Toxic by inhalation.
R34 Causes burns.
R35 Causes severe burns.
R37 Irritating to respiratory system.

- ***Department issuing data specification sheet:*** *see item 1: Informing department*
- ***Abbreviations and acronyms:***

LEV: Local Exhaust Ventilation
RPE: Respiratory Protective Equipment
RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Met. Corr.1: Corrosive to metals, Hazard Category 1
Acute Tox. 4: Acute toxicity, Hazard Category 4
Acute Tox. 3: Acute toxicity, Hazard Category 3
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3