

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

Printing date 19.12.2022

Version number 2 (replaces version 1)

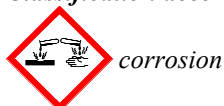
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** *CarWash AntiCalc Plus 90*
- **UFI:** *H3W0-P0G3-8005-4XUU*
- **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 material/ Detergent*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Pramol-Chemie AG  
Industriestrasse 3  
CH-9602 Bazenheid/SG  
Tel +41 71 931 70 30  
Fax +41 71 931 44 54*
- **Further information obtainable from:**  
*Abteilung für Produktsicherheit  
info@pramol.com  
Tel. 071 931 70 30*
- **1.4 Emergency telephone number:**  
*Centre suisse d'information toxicologique, Zurich  
+41 (0)44 251 51 51 ou 145 (depuis la Suisse)  
Schweizerisches Toxikologisches Informationszentrum, Zürich  
+41 (0)44 251 51 51 oder aus der Schweiz: Tel 145  
Centro Svizzero d'informazione tossicologica  
+41 (0)44 251 51 51 o dalla Svizzera: Tel 145*

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



corrosion

- *Skin Corr. 1A H314 Causes severe skin burns and eye damage.*
- *Eye Dam. 1 H318 Causes serious eye damage.*

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
*The product is classified and labelled according to the GB CLP regulation.*
- **Hazard pictograms** *GHS05*
- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
*formic acid  
Alcohol C13-iso, ethoxylated 9.5 EO*
- **Hazard statements**  
*H314 Causes severe skin burns and eye damage.*
- **Precautionary statements**  
*P102 Keep out of reach of children.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*

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· vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

## · 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 64-18-6 EINECS: 200-579-1 Reg.nr.: 01-2119491174-37	formic acid ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 10 % ≤ C < 90 % Skin Irrit. 2; H315: 2 % ≤ C < 10 % Eye Irrit. 2; H319: 2 % ≤ C < 10 %	20-25%
CAS: 9043-30-5	Alcohol C13-iso, ethoxylated 9.5 EO ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	≥3-≤5%
CAS: 812-00-0 EINECS: 212-379-1	methyl dihydrogen phosphate ⚠ Skin Corr. 1B, H314	≥1-≤2.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

## · 4.1 Description of first aid measures

· **General information:** Immediately remove any clothing soiled by the product.· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.· **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

## · 5.1 Extinguishing media

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

## · 5.3 Advice for firefighters

· **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

## · 6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

## · 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.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

## · 6.4 Reference to other sections

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

· **Information about fire - and explosion protection:** No special measures required.

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

##### · Storage:

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep container tightly sealed.

· **Storage class:** 8 B

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

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

**64-18-6 formic acid**

WEL Long-term value: 9.6 mg/m<sup>3</sup>, 5 ppm

#### · DNELs

**64-18-6 formic acid**

Inhalative	DNEL long term systemic effects	3 mg/m <sup>3</sup> (general population) 9.5 mg/m <sup>3</sup> (workers)
	DNEL short term local effects	9.5 mg/m <sup>3</sup> (general population) 19 mg/m <sup>3</sup> (workers)
	DNEL long term local effects	3 mg/m <sup>3</sup> (general population) 9.5 mg/m <sup>3</sup> (workers)
	DNEL short term systemic effects	9.5 mg/m <sup>3</sup> (general population) 19 mg/m <sup>3</sup> (workers)

#### · PNECs

**64-18-6 formic acid**

PNEC	1 mg/l (intermittent release) 7.2 mg/l (sewage plant)
PNEC aqua	2 mg/l (fresh water) 0.2 mg/l (sea water)
PNEC sediment	13.4 mg/kg (fresh water) 1.34 mg/kg (sea water)
PNEC ground	1.5 mg/kg (ground)

· **Additional information:** The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

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Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection**



Protective gloves

· **Material of gloves**

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.5$  mm

· **Penetration time of glove material  $\geq 8h$**

· **Eye/face protection**



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Red

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

100 °C (7732-18-5 water, distilled, conductivity or of similar purity)

Not applicable.

· **Flammability**

· **Lower and upper explosion limit**

14 Vol % (64-18-6 formic acid)

· **Lower:**

33 Vol % (64-18-6 formic acid)

· **Upper:**

Not applicable.

· **Flash point:**

· **Ignition temperature:**

520 °C (64-18-6 formic acid)

· **Decomposition temperature:**

Not determined.

· **pH at 20 °C**

1

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **Dynamic:**

Not determined.

· **Solubility**

· **water:**

Fully miscible.

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Vapour pressure at 20 °C:**

43 hPa (64-18-6 formic acid)

· **Density and/or relative density**

· **Density at 20 °C:**

1.077 g/cm<sup>3</sup>

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **9.2 Other information**

· **Appearance:**

· **Form:**

Fluid

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- **Important information on protection of health and environment, and on safety.**
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Solvent separation test:**
- **Organic solvents:** 0.2 %
- **Water:** 68.8 %
- **Solids content:** 1.7 %
- **Change in condition**
- **Evaporation rate** Not determined.

- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · **LD/LC50 values relevant for classification:**

64-18-6 formic acid

Oral	LD50	730 mg/kg (Rat)
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- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.

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## · 11.2 Information on other hazards

## · Endocrine disrupting properties

None of the ingredients is listed.

**SECTION 12: Ecological information**

## · 12.1 Toxicity

## · Aquatic toxicity:

**64-18-6 formic acid**EC50 (72h) 26.9 mg/l (*Scenedesmus subspicatus*)LC50 (96h) 46-100 mg/l (*leu*)EC50 46.7 mg/l (*Pseudokirchneriella subcapitata*) (17h, DIN 38412 Teil 8)LC50 32.19 mg/l (*Daphnia magna*) (48h)

· 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.

## · 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

## · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

## · 12.7 Other adverse effects

## · Additional ecological information:

## · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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.

**SECTION 13: Disposal considerations**

## · 13.1 Waste treatment methods

## · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

## · Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

## · 14.1 UN number or ID number

## · ADR, IMDG, IATA

UN3265

## · 14.2 UN proper shipping name

## · ADR

3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(FORMIC ACID)

## · IMDG, IATA

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(FORMIC ACID)

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## · 14.3 Transport hazard class(es)

· ADR, IMDG, IATA



· Class 8 Corrosive substances.  
· Label 8

## · 14.4 Packing group

· ADR, IMDG, IATA II

· 14.5 Environmental hazards: Not applicable.

## · 14.6 Special precautions for user

Warning: Corrosive substances.

· Hazard identification number (Kemler code): 80

· EMS Number: F-A,S-B

· Segregation groups (SGG1) Acids

· Stowage Category B

· Stowage Code SW2 Clear of living quarters.

· Segregation Code SG36 Stow "separated from" SGG18-alkalis.

SG49 Stow "separated from" SGG6-cyanides

## · 14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

## · Transport/Additional information:

· ADR  
· Limited quantities (LQ) 1L  
· Excepted quantities (EQ) Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

· Transport category 2  
· Tunnel restriction code E

· IMDG  
· Limited quantities (LQ) 1L  
· Excepted quantities (EQ) Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (FORMIC ACID), 8, II

### SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

non-ionic surfactants, amphoteric surfactants

&lt;5%

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

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**SECTION 16: Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Relevant phrases***H302 Harmful if swallowed.**H314 Causes severe skin burns and eye damage.**H318 Causes serious eye damage.***· Abbreviations and acronyms:***ADR: Accord relatif au transport international 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 Harmonised System of Classification and Labelling of Chemicals**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)**DNEL: Derived No-Effect Level (UK REACH)**PNEC: Predicted No-Effect Concentration (UK REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 4: Acute toxicity – Category 4**Skin Corr. 1A: Skin corrosion/irritation – Category 1A**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Eye Dam. 1: Serious eye damage/eye irritation – Category 1***· \* Data compared to the previous version altered.**