

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

- **1.1 Product identifier**
- **Trade name:** Javelwasser 13/14%
- **UFI:** 9HU4-E0R6-000V-ERTU
- **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. 1B      H314 Causes severe skin burns and eye damage.  
Eye Dam. 1      H318 Causes serious eye damage.



environment

Aquatic Acute 1      H400 Very toxic to aquatic life.  
Aquatic Chronic 1      H410 Very toxic to aquatic life with long lasting effects.

- **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, GHS09
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
sodium hypochlorite, solution
- **Hazard statements**  
H314 Causes severe skin burns and eye damage.  
H410 Very toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P102      Keep out of reach of children.  
P280      Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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## Safety data sheet

### according to 1907/2006/EC, Article 31

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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.*

P405 *Store locked up.*

P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Additional information:**

EUH031 *Contact with acids liberates toxic gas.*

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:**

Mixture: *consisting of the following components.*

Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

|                           |  |         |
|---------------------------|--|---------|
| CAS: 7681-52-9            | sodium hypochlorite, solution  | 50-100% |
| EINECS: 231-668-3         | ☞ Skin Corr. 1B, H314; Eye Dam. 1, H318; ☞ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1), EUH031 |         |
| Reg.nr.: 01-2119488154-34 | Specific concentration limit: EUH031: C ≥ 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:** *Mouth respiratory protective device.*

### SECTION 6: Accidental release measures

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

*Mount respiratory protective device.*

*Wear protective equipment. Keep unprotected persons away.*

· **6.2 Environmental precautions:**

*Do not allow product to reach sewage system or any water course.*

*Inform respective authorities in case of seepage into water course or sewage system.*

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*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.**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:** *Do not store together with acids.***· 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:***The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.***· DNELs****7681-52-9 sodium hypochlorite, solution**

|            |                                  |   |
|------------|----------------------------------|---|
| Oral       | DNEL long term systemic effects  | 0.26 mg/kg bw/day (general population)      |
| Inhalative | DNEL long term systemic effects  | 1.55 mg/m <sup>3</sup> (general population) |
|            |                                  | 1.55 mg/m <sup>3</sup> (workers)            |
|            | DNEL short term local effects    | 3.1 mg/m <sup>3</sup> (workers)             |
|            | DNEL long term local effects     | 1.55 mg/m <sup>3</sup> (general population) |
|            |                                  | 1.55 mg/m <sup>3</sup> (workers)            |
|            | DNEL short term systemic effects | 3.1 mg/m <sup>3</sup> (workers)             |

**· PNECs****7681-52-9 sodium hypochlorite, solution**

|           |                                     |
|-----------|-------------------------------------|
| PNEC      | 0.00026 mg/l (intermittent release) |
|           | 0.03 mg/l (sewage plant)            |
| PNEC aqua | 0.00021 mg/l (fresh water)          |
|           | 0.00042 mg/l (sea water)            |

**· 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.*

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- **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.  
Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
- **Hand protection**  
EN 374



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Natural rubber, NR

Recommended thickness of the material:  $\geq 0.35$  mm

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**

 $\geq 8$ h

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

- **Eye/face protection**

EN166



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

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

- **General Information**

- |   |                 |
|---|-----------------|
| · <b>Physical state</b>   | Fluid           |
| · <b>Colour:</b>  | Yellow tint     |
| · <b>Odour:</b>   | Like chlorine   |
| · <b>Odour threshold:</b>   | Not determined. |
| · <b>Melting point/freezing point:</b>                            | -20-30 °C       |
| · <b>Boiling point or initial boiling point and boiling range</b> | 100 °C          |
| · <b>Flammability</b>   | Not applicable. |
| · <b>Lower and upper explosion limit</b>                          |                 |
| · <b>Lower:</b>   | Not determined. |
| · <b>Upper:</b>   | Not determined. |
| · <b>Flash point:</b>   | Not applicable. |
| · <b>Decomposition temperature:</b>                               | Not determined. |
| · <b>pH at 20 °C</b>  | 13              |
| · <b>Viscosity:</b>   |                 |
| · <b>Kinematic viscosity</b>                                      | Not determined. |

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|  |                         |
|--|-------------------------|
| · <b>Dynamic:</b>  | Not determined.         |
| · <b>Solubility</b>  |                         |
| · <b>water:</b>  | Fully miscible.         |
| · <b>Partition coefficient n-octanol/water (log value)</b> | Not determined.         |
| · <b>Vapour pressure at 20 °C:</b>                         | 20 hPa                  |
| · <b>Density and/or relative density</b>                   |                         |
| · <b>Density at 20 °C:</b>                                 | 1.235 g/cm <sup>3</sup> |
| · <b>Relative density</b>                                  | Not determined.         |
| · <b>Vapour density</b>                                    | Not determined.         |

|  |   |
|--|---|
| · <b>9.2 Other information</b>   |   |
| · <b>Appearance:</b>   |   |
| · <b>Form:</b>   | Fluid   |
| · <b>Important information on protection of health and environment, and on safety.</b> |   |
| · <b>Auto-ignition temperature:</b>  | Product is not selfigniting.                  |
| · <b>Explosive properties:</b>   | Product does not present an explosion hazard. |
| · <b>Solvent separation test:</b>  |   |
| · <b>Water:</b>  | 3.0 %   |
| · <b>Molecular weight</b>  | 74.45 g/mol                                   |
| · <b>Change in condition</b>   |   |
| · <b>Evaporation rate</b>  | Not determined.                               |

|  |      |
|--|------|
| · <b>Information with regard to physical hazard classes</b>                        |      |
| · <b>Explosives</b>  | Void |
| · <b>Flammable gases</b>   | Void |
| · <b>Aerosols</b>  | Void |
| · <b>Oxidising gases</b>   | Void |
| · <b>Gases under pressure</b>  | Void |
| · <b>Flammable liquids</b>   | Void |
| · <b>Flammable solids</b>  | Void |
| · <b>Self-reactive substances and mixtures</b>                                     | Void |
| · <b>Pyrophoric liquids</b>  | Void |
| · <b>Pyrophoric solids</b>   | Void |
| · <b>Self-heating substances and mixtures</b>                                      | Void |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Void |
| · <b>Oxidising liquids</b>   | Void |
| · <b>Oxidising solids</b>  | Void |
| · <b>Organic peroxides</b>   | Void |
| · <b>Corrosive to metals</b>   | Void |
| · <b>Desensitised explosives</b>   | 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** Reacts with acids releasing chlorine.
- **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.

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### 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:**

7681-52-9 sodium hypochlorite, solution

Oral LD50 5,800 mg/kg (Mouse)

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

### 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.
- **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**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, 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**  
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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**SECTION 14: Transport information**

|   |  |
|---|--|
| · 14.1 UN number or ID number<br>· ADR, IMDG, IATA  | UN1791   |
| · 14.2 UN proper shipping name<br>· ADR<br><br>· IMDG<br>· IATA   | 1791 HYPOCHLORITE SOLUTION,<br>ENVIRONMENTALLY HAZARDOUS<br>HYPOCHLORITE SOLUTION, MARINE POLLUTANT<br>HYPOCHLORITE SOLUTION |
| · 14.3 Transport hazard class(es)<br>· ADR, IMDG  |  |
|         |  |
| · Class<br>· Label  | 8 Corrosive substances.<br>8   |
| · IATA  |  |
|   |  |
| · Class<br>· Label  | 8 Corrosive substances.<br>8   |
| · 14.4 Packing group<br>· ADR, IMDG, IATA   | II   |
| · 14.5 Environmental hazards:<br>· Marine pollutant:<br><br>· Special marking (ADR):  | No<br>Symbol (fish and tree)<br>Symbol (fish and tree)   |
| · 14.6 Special precautions for user<br>· Hazard identification number (Kemler code):<br>· EMS Number:<br>· Segregation groups<br>· Stowage Category<br>· Segregation Code | Warning: Corrosive substances.<br>80<br>F-A,S-B<br>(SGG8) Hypochlorites<br>B<br>SG20 Stow "away from" SGG1-acids             |
| · 14.7 Maritime transport in bulk according to IMO instruments  | Not applicable.  |
| · Transport/Additional information:   |  |
| · ADR<br>· Limited quantities (LQ)<br>· Excepted quantities (EQ)  | 1L<br>Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml        |
| · Transport category<br>· Tunnel restriction code   | 2<br>E   |
| · IMDG<br>· Limited quantities (LQ)   | 1L   |

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· **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 1791 HYPOCHLORITE SOLUTION, 8, II,  
ENVIRONMENTALLY HAZARDOUS

### 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.· **Seveso category E1** Hazardous to the Aquatic Environment· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

chlorine-based bleaching agents

≥5 - &lt;15%

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

### 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**

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH031 Contact with acids liberates toxic gas.

· **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

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· **\* Data compared to the previous version altered.**

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