



MATERIAL SAFETY DATA SHEET

Revision: 26.04.2018
Version: 01

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

1.1. Product identifier

<p>PRESTIGE 24i ACID WASHING SOLUTION (Cat. No 3-105) PRESTIGE 24i ACID WASHING SOLUTION BULK (Cat. No 3-107)</p>
<p>Acid washing solution serves for biochemical analyzer Prestige 24i.</p>

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

<p>Laboratory reagents. For professional use only.</p>
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1.3. Details of the supplier of the safety data sheet

<p>Manufacturer:</p> <p>PZ CORMAY S.A. ul. Wiosenna 22 05-092 ŁOMIANKI</p> <p>phone/fax. (0-22) 751 79 10, 751 79 14 between: 8 am and 4 pm e-mail: msds@cormay.pl</p>
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1.4. Emergency telephone number


<p>Emergency telephone number: 112</p>
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

<p>Classification according to Regulation (EC) No 1272/2008 (CLP):</p> <p>Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317</p>

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP):	
	<p>Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one.</p> <p><i>Signal word:</i> Warning</p> <p><i>Hazard statement(s):</i> H315 Causes skin irritation. H319 Causes serious eye irritation. H317 - May cause an allergic skin reaction.</p> <p><i>Precautionary statement(s):</i> P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and 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.</p>

2.3. Other hazards

This mixture do not meet the criteria for PBT and vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Citric acid monohydrate	Contains: < 5%
CAS number: 5949-29-1	
EC number: 201-069-1	
Index number: -	
Registration number: 01-2119457026-42-0000	
Classification according to Regulation (EC) No 1272/2008 [CLP]: Eye Irrit. 2, H319	
Malic acid DL	Contains: < 5%
CAS number: 6915-15-7	
EC number: 230-022-8	
Index number: -	
Registration number: Not applicable.	
Classification according to Regulation (EC) No 1272/2008 [CLP]: Eye Irrit. 2, H319	
5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one	Contains: < 0.02%
CAS number: 55965-84-9	
EC number: 247-500-7 and 220-239-6	
Index number: 613-167-00-5	
Registration number: Not applicable.	
Classification according to Regulation (EC) No 1272/2008 [CLP]: Acute Tox. 3; H301 Acute Tox. 3; H311	

Acute Tox. 3; H331
Skin Corr. 1B; H314
Skin Sens. 1; H317
Aquatic Chronic 1; H410

The full text of H phrases is given in section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation remove exposed individual to fresh air. Call physician.
After skin contamination: wash off with plenty of water. Take off the contaminated clothing.
After contamination of eyes: rinse out with plenty of water for at least 15 minutes with the eyelid held wide open.
After consumption: give the individual, copious amounts of water to drink. If condition does not improve or becomes worse, consult physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

The mixture is non-flammable.
In the case of fire use extinguishing media suitable for materials stored in immediate vicinity. Water, CO₂, dry powder can be used as the extinguish media.
Not recommended extinguishing media: no data available.

5.2. Special hazards arising from the substance or mixture

During a fire thermal decomposition of the substances contained in the mixture may occur. As a result of that toxic fumes and gases may be formed, which contain among others: carbon monoxide, carbon dioxide.

5.3. Advice for firefighters

The rescuers must be equipped with protective clothing and respiratory tract isolating equipment, irrespective of ambient air (in the case of large fire).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Avoid contamination with the preparation.
Notify the effected individuals of the emergency, to be aware of the issues associated.
Do not inhale vapours/ aerosols.
Secure the flow of fresh air into closed rooms.
Avoid contact of the mixture with skin and eyes.
Remove contaminated clothing and wash before reuse.

6.1.2. For emergency responders

Wear protective clothing and rubber gloves.

6.2. Environmental precautions

Dilute with plenty of water. Avoid entering the product into drains, surface water and groundwater, reservoirs and waterways.

6.3. Methods and material for containment and cleaning up

Collect small quantities with the use of an absorbing agent (sand, diatomite, acid binders, universal binders, sawdust), rinse with large amount of water if necessary. Provide material collected for recycling.

6.4. Reference to other sections

Use the control measures and personal protective equipment described in section 8 of this MSDS. Refer to section 13 of this MSDS for adequate release measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

While working with the preparation, one should use appropriate means of personal protection (see pt. 8). Avoid contact of the preparation with skin and eyes, as well as inhaling its mists. Secure efficient local ventilation.

Industrial hygiene:

Eating, drinking or smoking of tobacco is prohibited while working with the preparation, except in places. Wash your hands after work with the substance carefully with soapy water. Apply skin-protective barrier cream.

7.2. Conditions for safe storage, including any incompatibilities

In accordance with the norms generally accepted for chemicals in laboratories.
Store in original manufacturer containers.
Store in closed containers at temperatures compatible with the information provided on the label.
Protect against light.
Protect containers from damage.
Keep away from food and animal feed.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Do not contain substances with occupational exposure limit values at workplace.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available.

8.2.2. Individual protection measures, such as personal protective equipment

General protective and hygienic measures: The usual precautionary measures should be adhered to in handling the chemicals.

Breathing equipment: Not required.

Protection of hands: 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 or 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: 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: Safety glasses recommended during refilling.

8.2.3. Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Appearance :- -The physical state : -Colour:	<i>clear solution colourless to light yellow</i>
b) Odour:	<i>odourless</i>
c) Odour threshold :	<i>no data available</i>
d) pH at 25 ⁰ C:	<i>2.18 (2.10 – 2.25)</i>
e) Melting point/freezing point	<i>no data available</i>
f) Initial boiling point and boiling range	<i>no data available</i>
g) Flash point:	<i>no data available</i>
h) Ignition temperature:	<i>no data available</i>
i) Flammability (solid, gas)	<i>incombustible</i>
j) Upper/lower flammability or explosive limits :	<i>no data available</i>
k) Vapour pressure :	<i>no data available</i>
l) Vapour density :	<i>no data available</i>
m) Relative density:	<i>no data available</i>
n) Solubility(ies)	<i>Fully miscible.</i>
o) Partition coefficient: n-octanol/water	<i>no data available</i>
p) Auto-ignition temperature	<i>no data available</i>
q) Decomposition temperature:	<i>no data available</i>
r) Viscosity :	<i>no data available</i>
s) Explosive properties:	<i>no data available</i>
t) Oxidising properties :	<i>no data available</i>
u) Electrical conductivity:	<i>no data available</i>
w) Evaporation rate:	<i>no data available</i>
x) Osmolality	<i>no data available</i>

9.2. Other information

No other relevant information.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable in conditions provided by the manufacturer.

10.2. Chemical stability

The product is stable when normal handling in accordance with conditions provided by the manufacturer.

10.3. Possibility of hazardous reactions

Not known.

10.4. Conditions to avoid

The product is stable in conditions provided by the manufacturer. Avoid light and heat.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No data for the mixture. Toxicological problems should not be expected if the product were used and applied appropriately. The product should be handled with the care usual when dealing with chemicals.

a) acute toxicity:

Data for Malic acid DL:

LD₅₀ (oral - rat) - 3.500 mg/kg

LD₅₀ (Intraperitoneal – rat) - 100 mg/kg

LD₅₀ (Intraperitoneal – mouse) - 50 mg/kg

Data for 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one:

LD₅₀ (oral - rat) - 2.630 mg/kg

LD₅₀ (oral - rat)- 3.350 mg/kg

LD₅₀ (dermal – rabbit) - > 5.000 mg/kg

b) irritation:

No data available.

c) corrosivity:

No data available.

d) sensitisation:

No data available.

e) repeated dose toxicity:

No data available.

f) carcinogenicity:

No data available.

g) mutagenicity:

No data available.

h) toxicity for reproduction:

No data available.

SECTION 12: Ecological information

12.1. Toxicity

No data for the mixture. Quantitative data on the ecological effect of this product are not available. Ecological problems should not be expected if the product were used and applied appropriately.

Further ecological data:

Do not allow for penetration into waters, sewage or soil.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:

Chemical residues, in general, are included into special waste. Disposing of the latter is regulated by appropriate laws and ordinances. We recommend contacting the appropriate authorities, or waste disposal enterprises that will advise you on how to dispose of special waste.

Packing:

Remove in accordance with official regulations. Treat contaminated packages in the same way as the substance itself. If the regulations do not provide otherwise, non-contaminated packages can be treated like household waste or forward them to be utilized.

SECTION 14: Transport information

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

No limits.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

Material Safety Data Sheet was prepared in accordance with:

Regulation (EC) No 1907/2006 of European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH);
Regulation (EC) No 1272/2008 of the European Parliament and Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

Chemical safety assessment has been no carried out for the product.

SECTION 16: Other information

Full text of abbreviations and acronyms:

Eye Irrit. 2 - Eye irritation (category 2)
Skin Irrit. 2 - Skin irritation (category 2)
Skin Sens. 1 - Skin sensitization (category 1)
Acute Tox. 3 - Acute toxicity (category 3)
Skin Corr. 1B - Skin corrosion (category 1B)
Aquatic Chronic 1 - Chronic aquatic toxicity (category 1)

Text of H-code(s):

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Methods of evaluating information for the purpose of classification: calculation method.

The foregoing information is based on the present state of our knowledge. It characterizes the product with respect to the appropriate safety measures. They do not guarantee the properties of the product.

We do not take responsibility for damage and losses that may result from inappropriate use of the mixture.

Reason of changes:
Changes to the offer (Section 1.1).