



# MATERIAL SAFETY DATA SHEET

Revision: 13.04.2017

Version: 1.0

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

### 1.1. Product identifier

**FLUSH (Cat. No 8 - 861)**

Emergency cleaner based on hypochlorite for washing and maintenance of haematology analysers.

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

**Laboratory reagents. For professional use only.**

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer:**

**PZ CORMAY S.A.  
ul. Wiosenna 22  
05-092 ŁOMIANKI**

**phone/fax. (0-22) 751 79 10, 751 79 14**

between: 8 am and 4 pm

**e-mail: msds@cormay.pl**

### 1.4. Emergency telephone number

Emergency telephone number: 112



## *SECTION 2: Hazards identification*

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 (CLP):**

**Eye Dam. 1, H318  
Skin Irrit. 2, H315  
Aquatic acute 1, H400**

## 2.2. Label elements

| <b>Labelling according to Regulation (EC) No 1272/2008 (CLP):</b>  |  |
|--|--|
| <br> | Contains sodium hypochlorite.<br><i>Signal word:</i><br>Danger<br><br>Hazard statement(s):<br>H318 - Causes serious eye damage.<br>H315 - Causes skin irritation.<br>H400 - Very toxic to aquatic life.<br><br>Precautionary statement(s):<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.<br>P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 - Immediately call a POISON CENTER or doctor/physician.<br>P302+ P352 IF ON SKIN: Wash with plenty of soap and water.<br>P273 Avoid release to the environment.<br>P391 Collect spillage. |

## 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

|  |                |
|--|----------------|
| <b>Sodium hypochlorite</b>   | Contains: <4%* |
| CAS number: 7681-52-9  |                |
| EC number: 231-668-3   |                |
| Index number: 017-011-00-1   |                |
| Registration number: 01-2119488154-34-XXXX                             |                |
| <b>Classification according to Regulation (EC) No 1272/2008 (CLP):</b> |                |
| Met. Corr. 1, H290   |                |
| Skin Corr. 1B, H314  |                |
| STOT SE 3, H335  |                |
| Aquatic Acute 1, H400  |                |
| * - % active chlorine  |                |

The full text of H code(s) 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, CO<sub>2</sub>, 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**

There is no data available about hazardous substances which may occur during fire thermal decomposition of the mixture.

#### **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 general 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.  
Do not store with food or animal feed.

### 7.3. Specific end use(s)

No data available.

## *SECTION 8: Exposure controls/personal protection*

### 8.1. Control parameters

Do not contain materials 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*

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

##### **a) Eye / Face protection:**

Avoid direct contact of the product with eyes, wear safety glasses.

##### **b) skin protection:**

###### **- hand protection:**

Avoid direct contact of the product with skin, immediately take off clothes soiled with the mixture and wash contaminated skin with soapy water, use personal protective, clothing and gloves:

##### **c) Respiratory protection:**

Use reagent in well-ventilated rooms, avoid inhaling product mists, respiratory tract-protective agents are not required.

##### **d) Thermal hazards:**

Not applicable.

### 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 :-<br>-The physical state :<br>-Colour: | <i>clear liquid,<br/>colourless</i>     |
| b) Odour:   | <i>characteristic smell of chlorine</i> |
| c) Odour threshold :                                  | <i>no data available</i>                |
| d) pH:  | <i>no data available</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) Evaporation rate:                                  | <i>no data available</i>                |
| i) Flammability (solid, gas)                          | <i>not applicable</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>miscible with water</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>                |

### 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

Acids, reducing agents.

## 10.6. Hazardous decomposition products

Chlorine, hydrochloric acid.

## 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:**

No data available.

**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. Ecological problems should not be expected if you use and apply the product appropriately. The product should be handled with the care usual when dealing with chemicals. The mixture toxicity evaluation is based on evaluation of the toxicity of particular components.**

**Data for sodium hypochlorite:**

Fish toxicity (Oncorhynchus kisutch) LC50: 32 ug/l / 96 h

Toxicity to daphnia (Daphnia magna) LC50: 32 ug/l / 48 h

Toxicity to crustacea (Palaemonetes pugio) LC50: 56400 ug/l / 48 h

Ecological problems should not be expected if you use and apply the product appropriately.

**Further ecological data:**

Prevent disposal into water, 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**

Not applicable.

## 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 Dam. 1 - Serious eye damage (category 1)

Skin Irrit. 2 - Skin irritation (category 2)

Aquatic Acute 1 – Acute aquatic toxicity (category 1)

Met. Corr. 1 - Corrosive to metals (category 1)

Skin Corr. 1B - Skin corrosion (category 1B)

STOT SE 3 - Specific target organ toxicity - single exposure (category 3)

#### ***Text of H-code(s):***

H318 - Causes serious eye damage.

H315 Causes skin irritation.

H400 - Very toxic to aquatic life.

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H335 - May cause respiratory irritation.

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:**

Update of legal acts (Section 15).