



# 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

Liquick Cor – BIL TOTAL 30 (Cat. No 2-214)  
Liquick Cor – BIL TOTAL 60 (Cat. No 2-245)  
Liquick Cor – BIL TOTAL 120 (Cat. No 2-246)  
Liquick Cor – BIL TOTAL 500 (Cat. No 2-296)  
Liquick Cor – BIL TOTAL “bulk” (Cat. No 2-272)  
ACCENT-200 BIL TOTAL (Cat. No 7-245)  
ACCENT-300 BIL TOTAL (Cat. No 7-345)  
A-400 BIL TOTAL (Cat. No 7-445)  
A-800 BIL TOTAL (Cat. No 7-807)  
PRESTIGE 24i LQ BIL TOTAL (version 24) (Cat. No 4-245)  
PRESTIGE 24i LQ BIL TOTAL (version 36) (Cat. No 4-445)  
HC-BIL TOTAL (Cat. No. 4-545)  
OS-BIL TOTAL (Cat. No 9-405)  
BIOLIS 15i BIL TOTAL VANAD (Cat. No 4-703)  
BIOLIS 50i BIL TOTAL VANAD (Cat. No 5-504)  
Liquick Cor-BIL TOTAL BULK (Cat. No 2-272\_R1)  
Liquick Cor-BIL TOTAL BULK (Cat. No 2-272\_R2)

The sets are designed for Health Service laboratories for determination of total bilirubin concentration in blood serum.

### 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

1-BIL TOTAL; 1-REAGENT

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

Eye Irrit. 2 (category 2); H319

#### 2.2. Label elements

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



1-BIL TOTAL; 1-REAGENT

*Signal word:*

Warning

*Hazard statement(s):*

H319 Causes serious eye irritation.

*Precautionary statement(s):*

P280 Wear protective gloves, eye protection and face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 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

1-BIL TOTAL; 1-REAGENT

**citric acid**

Contain: < 2%

CAS number: 5949-29-1

EC number: 201-069-1

Index number: -

Registration number: not available

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

Eye Irrit. 2, H319

<b>Hexadecyltrimethylammonium bromide</b>	Contains: < 1%
CAS number: 57-09-0	
EC number: 200-311-3	
Index number: -	
Registration number: -	
<b>Classification according to Regulation (EC) No 1272/2008 [CLP]:</b>	
Acute Tox. 4; H302	
Skin Irrit. 2; H315	
Eye Dam. 1; H318	
STOT SE 3; H335	
STOT RE 2; H373	
Aquatic Acute 1; H400	
<b>2-BIL TOTAL; 2-REAGENT</b>	
Does not contain hazardous substances in reportable quantities.	

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, 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 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 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 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 use glasses.

#### b) skin protection:

##### - hand protection:

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

#### c) Respiratory protection:

Apply in rooms with efficiently working ventilation, 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

	<u>1-BIL TOTAL;</u> <u>1-REAGENT</u>	<u>2-BIL TOTAL;</u> <u>2-REAGENT</u>
a) Appearance :- -The physical state : -Colour:	<i>clear liquid</i> <i>colourless</i>	<i>clear liquid</i> <i>colourless</i>
b) Odour:	<i>odourless</i>	<i>odourless</i>
c) Odour threshold :	<i>no data available</i>	<i>no data available</i>

d) pH:	2.8	6.8
e) Melting point/freezing point	<i>no data available</i>	<i>no data available</i>
f) Initial boiling point and boiling range	<i>no data available</i>	<i>no data available</i>
g) Flash point:	<i>no data available</i>	<i>no data available</i>
h) Evaporation rate:	<i>no data available</i>	<i>no data available</i>
i) Flammability (solid, gas)	<i>not applicable</i>	<i>not applicable</i>
j) Upper/lower flammability or explosive limits :	<i>no data available</i>	<i>no data available</i>
k) Vapour pressure :	<i>no data available</i>	<i>no data available</i>
l) Vapour density :	<i>no data available</i>	<i>no data available</i>
m) Relative density:	<i>no data available</i>	<i>no data available</i>
n) Solubility(ies)	<i>miscible with water</i>	<i>miscible with water</i>
o) Partition coefficient: n-octanol/water	<i>no data available</i>	<i>no data available</i>
p) Auto-ignition temperature	<i>no data available</i>	<i>no data available</i>
q) Decomposition temperature:	<i>no data available</i>	<i>no data available</i>
r) Viscosity :	<i>no data available</i>	<i>no data available</i>
s) Explosive properties:	<i>no data available</i>	<i>no data available</i>
t) Oxidising properties :	<i>no data available</i>	<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

Oxidizers, acids, alkalis, water reactive materials (alkali metals etc.)

### 10.6. Hazardous decomposition products

Carbon monoxide, nitrogen oxides, phosphor oxides and sodium compounds may be formed.

## ***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**

**Quantitative data on the ecological effect of this mixture are not available. The mixture toxicity evaluation is based on evaluation of the toxicity of particular components.**

***Ecotoxicity:***

No data available.

***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)

Acute Tox. 4 - Acute toxicity (category 4)

Skin Irrit. 2 - Skin irritation (category 2)

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

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

STOT RE 2 - Specific target organ toxicity - repeated exposure

Aquatic Acute 1 – Acute aquatic toxicity (category 1)

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

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H302 - Harmful if swallowed.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 - Very toxic to aquatic life.

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).