

# MATERIAL SAFETY DATA SHEET

Revision: 30.10.2023

Version: 02

## **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 BULK (Cat. No 2-272\_R1)  
Liquick Cor-BIL TOTAL BULK (Cat. No 2-272\_R2)  
HC-BIL TOTAL (Cat. No 4-545)  
OS-BIL TOTAL (Cat. No 9-405)  
B50-BIL TOTAL (Cat. No 5-504)  
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)  
EQ BIL TOTAL (Cat. No B02-R0007)

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

**Identified uses:** Laboratory reagents. For professional use only.

**Uses advised against:** No uses advised against have been identified.

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

**Manufacturer:**

PZ CORMAY S.A.  
Wiosenna 22  
05-092 Łomianki  
Poland  
phone: +48 22 751 79 10  
fax: +48 22 751 79 11

**E-mail address of the person responsible for the safety data sheet:** [msds@cormay.com](mailto:msds@cormay.com)

**1.4. Emergency telephone number**

The local/in-country emergency telephone number.

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

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

**1-REAGENT**

**Eye Irrit. 2, H319  
Aquatic Acute 1, H400  
Aquatic Chronic 2, H411**

**2-REAGENT**

The mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008 (CLP).

**2.2. Label elements**

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



1-REAGENT

*Signal word:*  
Warning



*Hazard statement(s):*

H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.

*Precautionary statement(s):*

P280 Wear protective gloves, protective clothing, eye protection or 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.  
P273 Avoid release to the environment.  
P391 Collect spillage.

**2-REAGENT**

The mixture does not require to be labeled as hazardous.

### 2.3. Other hazards

The mixture does not contain any substances meeting the criteria for PBT or vPvB in accordance with Annex XIII of REACH in its current version.

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

#### 1-REAGENT

**citric acid** Contains: < 2%

CAS number: 5949-29-1

EC number: 201-069-1

Index number: -

Registration number: 01-2119457026-42-XXXX

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

Eye Irrit. 2, H319

STOT SE 3, H335

**hexadecyltrimethylammonium bromide** Contains: < 1%

CAS number: 57-09-0

EC number: 200-311-3

Index number: -

Registration number: 01-2119989160-35-XXXX

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

Acute Tox. 4, H302

Skin Irrit. 2, H315

Eye Dam. 1, H318

STOT SE 3, H335

STOT RE 2, H373

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

**hydrochloric acid 37%** Contains: < 0.2%

CAS number: 7647-01-0

EC number: 231-595-7

Index number: 017-002-01-X

Registration number: 01-2119484862-27-XXXX

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

Skin Corr. 1B, H314  
STOT SE 3, H335

**Specific concentration limits:**

Eye Irrit. 2, H319:  $10\% \leq C < 25\%$   
STOT SE 3, H335:  $C \geq 10\%$   
Skin Corr. 1B, H314:  $C \geq 25\%$   
Skin Irrit. 2, H315:  $10\% \leq C < 25\%$

Substance with a Community workplace exposure limit.

**2-REAGENT**

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**

**General information:** In case of any disorder, get medical advice and show the package or label.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. If symptoms occur, consult a physician.

**In case of skin contact:** Wash contaminated skin immediately with plenty of soap and water. Remove contaminated clothing immediately.

**In case of eye contact:** Wash thoroughly eyes with plenty of water for at least 15 minutes. If irritation remains, seek medical help.

**If swallowed:** Rinse mouth with water. Consult a doctor if symptoms occur.

### **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**

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.

No data available on resources not recommended for firefighting.

### 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 mixture.

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 mixture 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.

Dispose of the collected material to a company with a waste management permit.

### 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 mixture, one should use appropriate means of personal protection (see pt. 8).

Avoid contact of the mixture 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 mixture, except for places specially designated for this purpose.

Wash your hands after work with the mixture 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 from direct sunlight and avoid contamination.

Protect containers from damage.

Do not store with food or animal feed.

### 7.3. Specific end use(s)

No information on uses other than those listed in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Contains substances with occupational exposure limit values at workplace.

#### Data for hydrogen chloride:

Indicative occupational exposure limit values			
Eight hours (TWA)		Short-term (STEL)	
mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
8	5	15	10

TWA - Time-weighted average (exposure limit 8h).

STEL - Short time exposure limit.

Derived No Effect Level (DNEL):

Worker	Long term exposure –Local effects, inhalation	8 mg/m <sup>3</sup>
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Predicted No Effect Concentration (PNEC): No PNECs available.

**Data for hexadecyltrimethylammonium bromide:**

Derived No Effect Level (DNEL):

Worker	Long term exposure - Systemic effects, inhalation	98.7 µg/m <sup>3</sup>
	Short term exposure – Local effects, inhalation	0.05 mg/m <sup>3</sup>
	Long term exposure - Systemic effects, dermal	0.467 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

water		STP	soil
freshwater	marine water		
0.022 µg/l	0.002 µg/l	0.19 mg/l	0.21 mg/kg soil dw

## 8.2. Exposure controls

Observe general health and safety rules. Do not eat, drink or smoke while working. Wash hands before breaks and at the end of work. Use personal protective equipment.

**a) Eye/Face protection:**

Avoid direct contact of the mixture with eyes, use glasses as a protection.

**b) Skin/Hand protection:**

Avoid direct contact of the mixture 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:**

Apply in rooms with efficiently working ventilation, avoid inhaling the mixture mists, respiratory tract-protective agents are not required.

**d) Thermal hazards:**

Thermal hazards have not been identified.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

	<u>1-REAGENT</u>	<u>2-REAGENT</u>
a) Physical state:	<i>clear liquid</i>	<i>clear liquid</i>
b) Colour:	<i>colourless</i>	<i>slightly yellow</i>
c) Odour:	<i>no data available</i>	<i>no data available</i>
d) Melting point/freezing point:	<i>no data available</i>	<i>no data available</i>
e) Boiling point or initial boiling point and boiling range:	<i>no data available</i>	<i>no data available</i>
f) Flammability:	<i>no data available</i>	<i>no data available</i>
g) Lower and upper explosion limit:	<i>no data available</i>	<i>no data available</i>
h) Flash point:	<i>no data available</i>	<i>no data available</i>
i) Auto-ignition temperature:	<i>no data available</i>	<i>no data available</i>

j) Decomposition temperature:	<i>no data available</i>	<i>no data available</i>
k) pH:	2.8	6.8
l) Kinematic viscosity:	<i>no data available</i>	<i>no data available</i>
m) Solubility:	<i>soluble in water</i>	<i>soluble in water</i>
n) Partition coefficient n-octanol/water (log value):	<i>no data available</i>	<i>no data available</i>
o) Vapour pressure:	<i>no data available</i>	<i>no data available</i>
p) Density and/or relative density:	1.0107 g/cm <sup>3</sup>	0.9963 g/cm <sup>3</sup>
q) Relative vapour density:	<i>no data available</i>	<i>no data available</i>
r) Particle characteristics:	<i>not applicable</i>	<i>not applicable</i>

## 9.2. Other information

No other relevant information.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The mixture is stable in conditions provided by the manufacturer.

### 10.2. Chemical stability

The mixture is stable when normal handling and with anticipated warehousing and storage conditions.

### 10.3. Possibility of hazardous reactions

Not known.

### 10.4. Conditions to avoid

The mixture is stable in conditions provided by the manufacturer. Avoid heat. Protect from direct sunlight and avoid contamination.

### 10.5. Incompatible materials

Not known.

### 10.6. Hazardous decomposition products

Not known. In the event of fire: see section 5.



## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicity of the mixture:

##### a) acute toxicity:

ATE<sub>mix</sub> (oral) > 2000

##### b) skin corrosion/irritation:

Based on available data, the classification criteria are not met.

##### c) serious eye damage/irritation:

1-REAGENT: Causes serious eye irritation.

2-REAGENT: Based on available data, the classification criteria are not met.

##### d) respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

##### e) germ cell mutagenicity:

Based on available data, the classification criteria are not met.

##### f) carcinogenicity:

Based on available data, the classification criteria are not met.

##### g) reproductive toxicity:

Based on available data, the classification criteria are not met.

##### h) STOT-single exposure:

Based on available data, the classification criteria are not met.

##### i) STOT-repeated exposure:

Based on available data, the classification criteria are not met.

##### j) aspiration hazard:

Based on available data, the classification criteria are not met.

### 11.2 Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 12: Ecological information

### 12.1. Toxicity

No ecotoxicological studies conducted for the entire mixture.

#### **Ecotoxicity effects of the components:**

##### Hexadecyltrimethylammonium bromide:

Toxicity to algae *Pseudokirchneriella subcapitata* (green algae) – ErC<sub>50</sub>: 0.00411 mg/l (72h)

Toxicity to algae *Desmodesmus subspicatus* (green algae) – NOEC: 0.001 mg/l (72h)

#### **Ecotoxicity effects of the mixture:**

1-REAGENT: Very toxic to aquatic life with long lasting effects.

2-REAGENT: The mixture is not classified as hazardous to the aquatic environment.

**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**

The mixture does not contain any substances meeting the criteria for PBT or vPvB in accordance with Annex XIII of REACH in its current version.

**12.6. Endocrine disrupting properties**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**12.7 Other adverse effects**

No other adverse effect have been identified.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Transfer waste to a company with a waste management permit. Avoid releasing to the drains and to the environment.

Reagent	Waste classification	UE waste code reagent	UE waste code direct packaging
1-REAGENT	hazardous	18 01 06*	15 01 10*
2-REAGENT	non-hazardous	18 01 07	15 01 02

List of Waste referred to in Article 7 of Directive 2008/98/EC:

15 01 02 plastic packaging

15 01 10\* packaging containing residues of or contaminated by hazardous substances

18 01 06\* chemicals consisting of or containing hazardous substances

18 01 07 chemicals other than those mentioned in 18 01 06

## **SECTION 14: Transport information**

### **14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments**

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 1272/2008 of the European Parliament and of the 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 (Text with EEA relevance) in its current version.

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance) in its current version.

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) (Text with EEA relevance) in its current version.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives (Text with EEA relevance) in its current version.

Council regulation (EU) 2017/997 of 8 June 2017 amending Annex III to Directive 2008/98/EC of the European Parliament and of the Council as regards the hazardous property HP 14 'Ecotoxic' (Text with EEA relevance) in its current version.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Text with EEA relevance) in its current version.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

## 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### **Full text of abbreviations and acronyms:**

PBT - persistent, bioaccumulative and toxic substances

vPvB - very persistent and very bioaccumulative substances

Acute Tox. 4 - Acute toxicity (category 4)

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

Skin Irrit. 2 - Skin irritation (category 2)

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

Eye Irrit. 2 - Serious eye irritation (category 2)

STOT RE 2 - Specific target organ toxicity — repeated exposure (category 2)

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

Aquatic Acute 1 - Hazardous to the aquatic environment - acute hazard (category 1)

Aquatic Chronic 1 - Hazardous to the aquatic environment - chronic hazard (category 1)

Aquatic Chronic 2 - Hazardous to the aquatic environment - chronic hazard (category 2)

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

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H373 - May cause damage to organs

H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H411 - Toxic to aquatic life with long lasting effects

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

Key literature references and data sources: the material safety data sheet for the mixture have been prepared on the basis of safety data sheets for individual components of the mixture, data from the ECHA website and the available knowledge and experience, taking into account the current legislation.

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

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

Reason of changes:

Adaptation of the format of the safety data sheet to the requirements of Commission Regulation (EU) 2020/878 of 18 June 2020

Changes to the offer (section 1.1)

Classification and labelling changes (section 2)

Update information of the components of mixture (section 3.2)

Introducing information about control parameters (section 8.1)

Update of the ecological information (section 12)

Introducing information about waste classification and the assigned waste codes (section 13.1)

Update of the legal regulations (section 15.1)

Change of the document number

Logo change