

Center for Strategic Research and
Development of Georgia
5 Jebashvili I Exit
0177 Tbilisi
GÉORGIE

Comparative study Report N° 1153370A01 v2

Toxicological assessment of cleaning products

24 August 2020

**This report cancels and replaces report N°1153370A01 v1 which has to be destroyed.
The laboratory accepts no responsibility for the use of any previous report to this report.
Reason: minor changes**

For the attention of **Vakhtang Kobaladze**
Center for Strategic Research and Development of Georgia

Quotation 2019/60659 (DSP 749169)
Reference Testing of Household Hygiene Items

Tested products
40 samples

Aurélien VERNIER / Cédric POULENARD, *Study Manager*

*The copy of this report is only authorized by unabridged edition
This edition includes 26 pages*

The reported results relate exclusively to the tested samples. The samples will be kept only 2 months from the date of this report. The sample and the information regarding sample have been provided by the client. All information related to the sample are under liability of the client and have not been checked by the Eurofins ATS Company

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133

SUMMARY

1. FOREWORD	3
2. SYNTHESIS/CONCLUSION	17
3. REGULATORY DATA	18
4. COMMENTS	21
5. RESULTS.....	25

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133

1. FOREWORD

The aim of this study is to compare, on the basis of chemical and physical analysis, some cleaning products.

TESTED PRODUCTS:



- ❁ **PERSIL COLOR**
 TEXTILE WASHING POWDER DEEP CLEAN TECHNOLOGY 450 G SAMPLE 1 RUSSIA
 Supplier name: HENKEL Rus
 Batch N°: 2 18.11.19 4 N
 Barcode N°: 9000101411324
 Provided by: CSRDG
 Info: non-resealable packaging



- ❁ **BIMAX**
 TEXTILE WASHING POWDER IQ SMART 400 G SAMPLE 2 RUSSIA
 Supplier name: JSC NEFCO
 Batch N°: 200919B
 Barcode N°: 4604049012831
 Provided by: CSRDG
 Info: non-resealable packaging



- ❁ **ARIEL**
 TEXTILE WASHING POWDER 450 G SAMPLE 3 TURKEY
 Supplier name: P&G
 Batch N°: 9 3332725 1B 06:32 29.11.2019 TR
 Barcode N°: 5413149719132
 Provided by: CSRDG
 Info: non-resealable packaging



- ❁ **TIDE**
 TEXTILE WASHING POWDER 400 G SAMPLE 4 TURKEY
 Supplier name: P&G
 Batch N°: 9 3462725 1B 12:38 12.12.2019 TR
 Barcode N°: 8001841058719
 Provided by: CSRDG
 Info: non-resealable packaging

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie
Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133



SAVEX
TEXTILE WASHING POWDER PARFUM LOCK
400 G SAMPLE 5 BULGARIA
Supplier name: FICOSOTA
Batch N°: 27119 18:44 C 2125
Barcode N°: 3800024021411
Provided by: CSRDG
Info: non-resealable packaging



LOSK
TEXTILE WASHING POWDER ACTIVE 6 410 G
SAMPLE 6 RUSSIA
Supplier name: HENKEL Rus
Batch N°: 1 04.10.19 2 N
Barcode N°: 9000101400007
Provided by: CSRDG
Info: non-resealable packaging



PERWOLL
TEXTILE WASHING LIQUID 1 L SAMPLE 7
RUSSIA
Supplier name: HENKEL Rus
Batch N°: 13.12.19 2498 5 17:23 0
Barcode N°: 9000101410402
Provided by: CSRDG



BOS MAXIMUM
TEXTILE BLEACHER 250 G SAMPLE 8
RUSSIA
Supplier name: JSC AIST
Batch N°: 210707
Barcode N°: 4600905000325
Provided by: CSRDG
Info: non-resealable packaging

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie
Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133



- AL AFRAH**
 TEXTILE BLEACHER 200 G SAMPLE 9 SYRIA
 Supplier name: SHAWAF GROUP
 Batch N°: P.09/019.L.8.26/09
 Barcode N°: 6214000701032
 Provided by: CSRDG
 Info: non-resealable packaging



- EUREKA CLASSIC**
 TEXTILE BLEACHER 120 G SAMPLE 10 GREECE
 Supplier name: JSC EURICA ELAS
 Batch N°: 270819
 Barcode N°: 5201137010428
 Provided by: CSRDG
 Info: non-resealable packaging



- LASKA**
 TEXTILE WASHING LIQUID 500 ML SAMPLE 11 RUSSIA
 Supplier name: HENKEL Rus
 Batch N°: 11.07.19 1329 4 15:59 0
 Barcode N°: 9000101416909
 Provided by: CSRDG



- PURE**
 CONDITIONER FOR LINEN 1200 ML SAMPLE 12 RUSSIA
 Supplier name: JSC GREENFIELD RUS
 Batch N°: 11.12.18 08:44 N2
 Barcode N°: 4607017945414
 Provided by: CSRDG

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie
Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133



SEMANA AQUA JOY
TEXTILE SOFTENER 1 L SAMPLE 13
BULGARIA
Supplier name: FICOSOTA
Batch N°: 201218 12:44 B392
Barcode N°: 3800024016608
Provided by: CSR DG



LENOR
CONDITIONER FOR LINEN 1 L SAMPLE 14
RUSSIA
Supplier name: P&G Novomoskovsk
Batch N°: 11/11/19 N 00:3193150344L4
Barcode N°: 5413149280724
Provided by: CSR DG



VERNEL
CONDITIONER FOR LINEN 910 ML SAMPLE
15 RUSSIA
Supplier name: HENKEL Rus
Batch N°: 25.11.19 2182 4 18:37
Barcode N°: 9000101075199
Provided by: CSR DG

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie
Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133



FROSCH MANDELMILCH WEICHSPÜLER
TEXTILE SOFTENER 750 ML SAMPLE 16
GERMANY

Supplier name: ERDAL REX GMBH
Batch N°: 190429 1
Barcode N°: 4001499180330
Provided by: CSR DG



PODSNEJNIK
TEXTILE BLEACHER 500 G SAMPLE 17
RUSSIA

Supplier name: JSC DOM BIT KHIM

Batch N°:

12.09.19 П126

Barcode N°: 4607137250573

Provided by: CSR DG

Info: non-resealable packaging



VANISH GOLD
CARPET CLEANING FLUID 450 ML SAMPLE
18 RUSSIA

Supplier name: REKIT BENKIZER

Batch N°: X 27.03.18 15:01

Barcode N°: 4607109400883

Provided by: CSR DG

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros


Code APE : 7120B

ATS@eurofins.com


Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133




- 
KUHLSCHRANK HYGIENE-REINIGER
 REFRIGERATOR CLEANING FLUID 250 ML
 SAMPLE 19 GERMANY
 Supplier name: DELTA PRONATURA
 Batch N°: C11072019
 Barcode N°: 4008455024516
 Provided by: CSRDG



- 
CHISTIN
 FLOOR CLEANING FLUID 1000 G SAMPLE 20
 RUSSIA
 Supplier name: STUPYNSKI CHEMICAL FACTORY
 Batch N°: 07.12.19
 Barcode N°: 4602984010059
 Provided by: CSRDG



- 
CARREFOUR
 WINDOW CLEANING FLUID ECO PLANET 750
 ML SAMPLE 21 FRANCE
 Supplier name: A-08812521
 Batch N°: 601471/190315
 Barcode N°: 3560070829606
 Provided by: CSRDG

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133



- ✿ **PRIL**
 DISHWASHING FLUID 450 ML SAMPLE 22
 RUSSIA
 Supplier name: HENKEL Rus
 Batch N°: 22.10.19 0206 1 14:59
 Barcode N°: 90407437
 Provided by: CSRDG



- ✿ **BIOLAN**
 DISHWASHING LIQUID 900 G SAMPLE 23
 RUSSIA
 Supplier name: NEFCO
 Batch N°: 09/11/19 13:02
 Barcode N°: 4604049095872
 Provided by: CSRDG



- ✿ **AOS**
 DISHWASHING LIQUID 460 G SAMPLE 24
 RUSSIA
 Supplier name: NEFIS COSMETICS
 Batch N°: 08/12/19 16:03
 Barcode N°: 4604049096053
 Provided by: CSRDG

Eurofins ATS


505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com


Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133




 **CARREFOUR**
DISHWASHING LIQUID 500 ML SAMPLE 25
BELGIUM
Supplier name: B-00432
Batch N°: 01901841 22/01/19
Barcode N°: 3560071116705
Provided by: CSRDG



 **FAIRY**
DISHWASHING LIQUID 450 ML SAMPLE 26
TURKEY
Supplier name: P&G
Batch N°: 0 002 2729 33 TR 020120 19:28
Barcode N°: 4084500213029
Provided by: CSRDG



 **BIOMIO**
DISHWASHING LIQUID 450 ML SAMPLE 27
RUSSIA
Supplier name: Organic Pharmaceuticals
Batch N°: H02 EXP06.21
Barcode N°: 4603014004376
Provided by: CSRDG

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie
Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133



- AVE**
 GLASS CLEANER 500 ML SAMPLE 28 IRAN
 Supplier name: PAKSHOO CHEMICAL & MANUFACTURING CO.
 Batch N°: 01/01/2020 B:152019810453
 Barcode N°: 6260010533552
 Provided by: CSRDG



- CLIN**
 GLASS CLEANER 500 ML SAMPLE 29 AUSTRIA
 Supplier name: HENKEL Central and Eastern Europe Operations GmbH
 Batch N°: 06/03/17 14:04 A 8
 Barcode N°: 9000100888448
 Provided by: CSRDG



- MR MUSCLE**
 FLOOR AND SURFACE CLEANING LIQUID 500 ML SAMPLE 31 UKRAINE
 Supplier name: SC JOHNSON
 Batch N°: 23.10.2019 11:13 6501
 Barcode N°: 4823002004571
 Provided by: CSRDG


Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie
Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133



-  **BIOMIO**
CLEANING LIQUID FOR KITCHEN 500 ML
SAMPLE 32 RUSSIA
Supplier name: MEZOPLAST
Batch N°: D27 01.04 OM2
Barcode N°: 4603014008015
Provided by: CSR DG



-  **PRONTO**
FURNITURE POLISH 300 ML SAMPLE 33
UKRAINE
Supplier name: SC JOHNSON
Batch N°: 21.08.2019 08:09 4177
Barcode N°: 4823002000511
Provided by: CSR DG



-  **CIF**
CIF CREAM ACTIV LEMON 250 ML SAMPLE
34 RUSSIA
Supplier name: UNILEVER Rus
Batch N°: 29.09.19 193971 M 15:49
Barcode N°: 8717163044735
Provided by: CSR DG


Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie
Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133


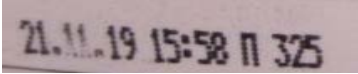


-  **HOMESTAR**
SPRAY FOR CLEANING OF OVENS ACTIVE
SPRAY 500 ML SAMPLE 35 RUSSIA
Supplier name: GREENFIELD Rus
Batch N°: 17.12.19 03342438
Barcode N°: 4607017943151
Provided by: CSRDG



-  **SANITOL**
LIQUID FOR CLEANING OF KITCHEN 500 ML
SAMPLE 36 RUSSIA
Supplier name: GREENFIELD Rus
Batch N°: 22.11.19 02442238
Barcode N°: 4607017940846
Provided by: CSRDG



-  **SANITARY FORMULA**
GEL FOR CLEANING OF KITCHEN OVENS 500
G SAMPLE 37 RUSSIA
Supplier name: STUPINSKY CHEMICAL FACTORY
Batch N°: 
Barcode N°: 4602984014699
Provided by: CSRDG


Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117


S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie
Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133



 **GUARDINO**
AIR FRESHENER 400 ML SAMPLE 38 RUSSIA
Supplier name: ALFATECHFORM
Batch N°: 87582/11.11.19
Barcode N°: 4605845010342
Provided by: CSRDG



 **GLADE**
AIR FRESHENER 300 ML SAMPLE 39 RUSSIA
Supplier name: AEROSTAR CONTRACT
Batch N°: 28.12.18.3 10:52. 0Л709
Barcode N°: 5000204079531
Provided by: CSRDG

Eurofins ATS


505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com


Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133



-  **BLOOM**
ROOM FRESHENER ULTRA COMPACT 300
ML SAMPLE 40 TURKEY
Supplier name: ARSAN CHEMICAL
Batch N°: G 25/10/2019 2410195
Barcode N°: 8697420532833
Provided by: CSRDG



-  **AIR WICK**
AIR FRESHENER 240 ML SAMPLE 41 GB
Supplier name: REKITT BENKISER
Batch N°: 24/04/19 13:19 A4
Barcode N°: 3059943016576
Provided by: CSRDG

Eurofins ATS


505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133

The study is based on:

-  Formaldehyde, free and released - Spectrophotometry - § 64 LFGB K 84.00-7:1991-09 mod. - (J7058)
SOP Reference: Eurofins Consumer Product Testing GmbH
-  Boron (B) - ICP-MS - EN ISO 17294-2 mod. - (FIN6V)
SOP Reference: Eurofins Consumer Product Testing GmbH
-  Lead (Pb) - ICP-MS - EN ISO 17294-2 mod. - (FIN1B)
SOP Reference: Eurofins Consumer Product Testing GmbH

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133

2. SYNTHESIS/CONCLUSION

According to the study carried out on different kind of cleaning products, we can conclude as follows:

Among all the tested references, none exceeded the threshold for Formaldehyde (50-00-0), Boron (7440-42-8 or 14798-13-1) expressed as Boric acid (10043-35-3) and Lead (7439-92-1).

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133

3. REGULATORY DATA

Formaldehyde, free and released - Spectrophotometry - § 64 LFGB K 84.00-7:1991-09 mod.

According to REACH (1907/2006), annex XVII, entry 28 (listed in appendix 2):

Formaldehyde (50-00-0) shall not be placed on the market, or used,

- as substances,
- as constituents of other substances, or,
- in mixtures,

for supply to the **general public** when the individual concentration $\geq 0.1\%$ (= the relevant generic concentration limit specified in Part 3 of Annex I to CLP (1272/2008)).

To conclude, **Formaldehyde (50-00-0) must be <0.1% (1 000 mg/Kg)**

Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)

General Information

Index Number	EC / List no.	CAS Number	International Chemical Identification
605-001-00-5	200-001-8	50-00-0	formaldehyde ...%

ATP Inserted / Updated: CLP00/ATP06

CLP Classification (Table 3)

Classification		Labelling			Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Hazard Class and Category Code(s)	Hazard Statement Code(s)	Hazard Statement Code(s)	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)		
Acute Tox. 3 *	H301	H301		GHS08	Eye Irrit. 2; H319: 5 % ≤ C < 25 % STOT SE 3; H335: C ≥ 5 % Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 5 % ≤ C < 25 % Skin Sens. 1; H317: C ≥ 0,2 %	Note B
Acute Tox. 3 *	H311	H311		GHS05		Note D
Skin Corr. 1B	H314	H314		GHS06		
Skin Sens. 1	H317	H317		Dgr		
Acute Tox. 3 *	H331	H331				
Muta. 2	H341	H341				
Carc. 1B	H350	H350				

Signal Words	Pictograms		
Danger			
	Health hazard	Corrosion	Skull and crossbones

Moreover:

- According to the Detergent Regulation (648/2004) the product must indicate on their label the preservatives used, irrespective of their concentration (Preservatives at trace levels will need to be labelled as ingredients unless the mixture manufacturer can demonstrate that these traces are technically unavoidable and technologically ineffective and do not cause adverse effects to human health even for sensitised persons).
- According to the Biocidal Products Regulation (528/2012) the preservatives used must be authorized (under review or approved) in PT6.

Formaldehyde (50-00-0) is not authorized in PT6 (it is only authorized in PT2, 3 and 22), therefore CANNOT BE USED AS A PRESERVATIVE IN A DETERGENT.

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133

Boron (B) - ICP-MS - EN ISO 17294-2 mod.

There is no specific limit according to REACH for Boron (7440-42-8 or 14798-13-1). It is not an SVHC, or it is not included in Annex XIV of REACH ("Authorisation List") or in Annex XVII of REACH (restricted substances).

In agreement with the client, Boron is here expressed* as Boric acid (10043-35-3) which is concerned by REACH (1907/2006), annex XVII, entry 30 (listed in appendix 6).

In this case, **Boric acid (10043-35-3) shall not be placed on the market**, or used,

- as substances,
- as constituents of other substances, or,
- in mixtures,

for supply to the **general public** when the individual concentration $\geq 5.5\%$ (=the relevant specific concentration limit specified in Part 3 of Annex VI to CLP (1272/2008)).

To conclude, **Boric acid (10043-35-3) must be <5.5% (55 000 mg/Kg)**

Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)


General Information

Index Number	EC / List no.	CAS Number	International Chemical Identification
005-007-00-2	233-139-2	10043-35-3	boric acid

ATP Inserted / Updated: ATP01/ATP01corr

CLP Classification (Table 3)

Classification		Labelling			Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Hazard Class and Category Code(s)	Hazard Statement Code(s)	Hazard Statement Code(s)	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)		
Repr. 1B	H360FD	H360FD		GHS08 Dgr	Repr. 1B; H360FD: C $\geq 5,5\%$	

Signal Words	Pictograms
Danger	 Health hazard

*In order to express Boron as Boric acid (10043-35-3) we have to multiply its amount by "5.72":

		n (mol)	m (g)	M (g.mol ⁻¹)	%
Boron	B	1	10,8	10,8	17,5
Hydrogen	H	3	3	1	4,9
Oxygen	O	3	48	16	77,7
Boric Acid	BH3O3	1	61,8	61,8	100,0

	m (g)
If m(g) Bore =	1,00
So m(g) Boric Acid =	5,72

Boron is expressed as Boric acid, this means that we can certify the presence of Boron but we cannot certify that the Boron comes from Boric acid. It could come from another Boron derivative as well.

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133

Lead (Pb) - ICP-MS - EN ISO 17294-2 mod.

According to REACH (1907/2006), annex XVII, entry 30 (listed in appendix 5):

Lead (7439-92-1) shall not be placed on the market, or used,

- as substances,
- as constituents of other substances, or,
- in mixtures,

for supply to the **general public** when the individual concentration $\geq 0.03\%^*$ (=the relevant specific concentration limit specified in Part 3 of Annex VI to CLP (1272/2008)).

**this concern lead powder; [particle diameter < 1 mm]*

To conclude, **Lead (7439-92-1) must be <0.03% (300 mg/Kg)**

Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)


General Information

Index Number	EC / List no.	CAS Number	International Chemical Identification
082-013-00-1	231-100-4	7439-92-1	lead powder; [particle diameter < 1 mm]

ATP Inserted / Updated: ATP09

CLP Classification (Table 3)

Classification		Labelling			Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Hazard Class and Category Code(s)	Hazard Statement Code(s)	Hazard Statement Code(s)	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)		
Lact.	H362	H362		GHS08 Dgr	Repr. 1A; H360D: C \geq 0,03 %	
Repr. 1A	H360FD	H360FD				

Signal Words	Pictograms
Danger	 Health hazard

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133

4. COMMENTS

According to this study, the following points are highlighted:

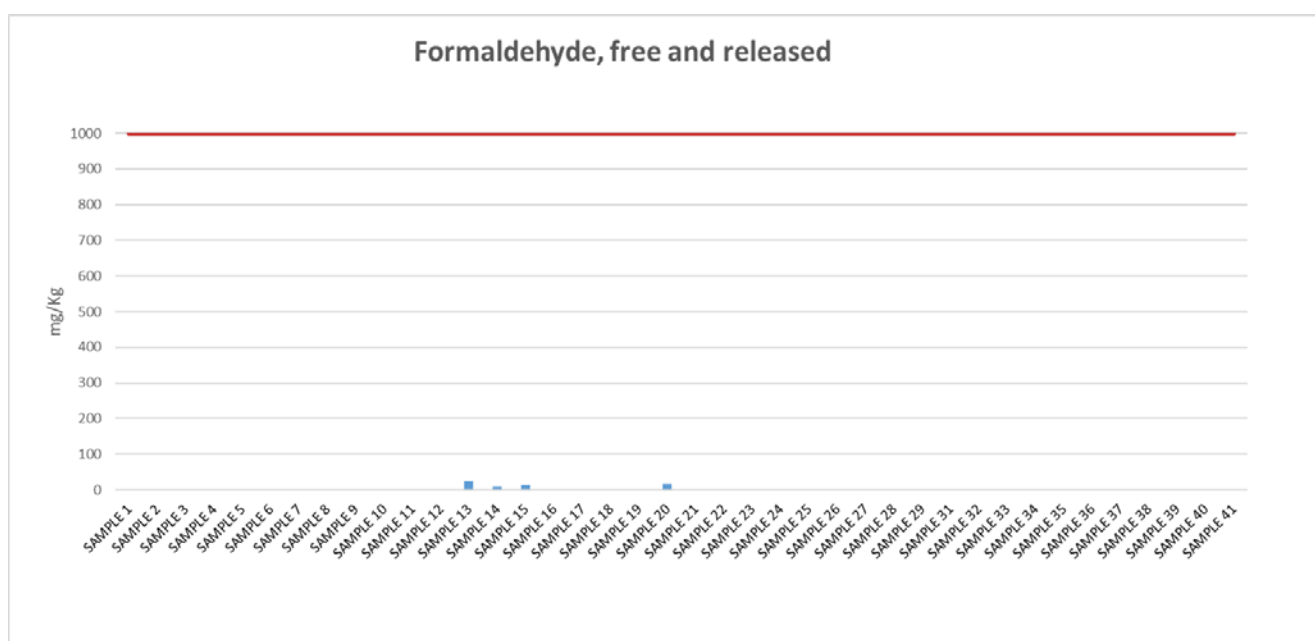
Formaldehyde, free and released - Spectrophotometry - § 64 LFGB K 84.00-7:1991-09 mod.

Among all the tested references, none exceeded the threshold of 0.1% (1 000 mg/Kg) of Formaldehyde (50-00-0). Thus no non-compliance can be highlighted according to REACH.

However, we can highlight that the following references contain Formaldehyde (50-00-0) and could be an issue according to the Detergent Regulation and the Biocidal Products regulation:

- SAMPLE 4
- SAMPLE 5
- SAMPLE 8
- SAMPLE 10
- SAMPLE 13
- SAMPLE 14
- SAMPLE 15
- SAMPLE 18
- SAMPLE 20
- SAMPLE 21
- SAMPLE 23
- SAMPLE 24
- SAMPLE 26
- SAMPLE 27
- SAMPLE 32

The analysis did not reveal the presence of Formaldehyde (50-00-0) in all the other references.



Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie
Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133

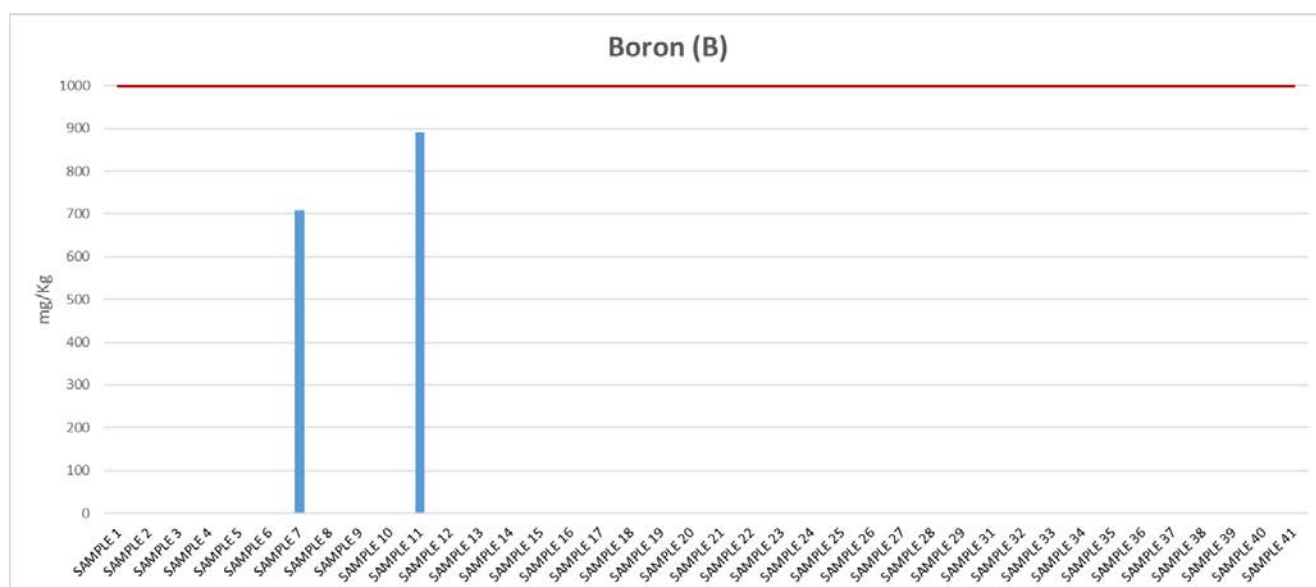
Boron (B) - ICP-MS - EN ISO 17294-2 mod.

Among all the tested references, none exceeded the threshold of 5.5% (55 000 mg/Kg) of Boron expressed* as Boric acid (10043-35-3). Thus no non-compliance can be highlighted.

Among all the tested references, only the following references contain Boron (7440-42-8 or 14798-13-1):

- SAMPLE 1
- SAMPLE 2
- SAMPLE 3
- SAMPLE 4
- SAMPLE 5
- SAMPLE 6
- SAMPLE 7
- SAMPLE 9
- SAMPLE 10
- SAMPLE 11
- SAMPLE 12
- SAMPLE 18
- SAMPLE 25
- SAMPLE 27
- SAMPLE 31
- SAMPLE 32
- SAMPLE 34
- SAMPLE 41

The analysis did not reveal the presence Boron (7440-42-8 or 14798-13-1) in all the other references.



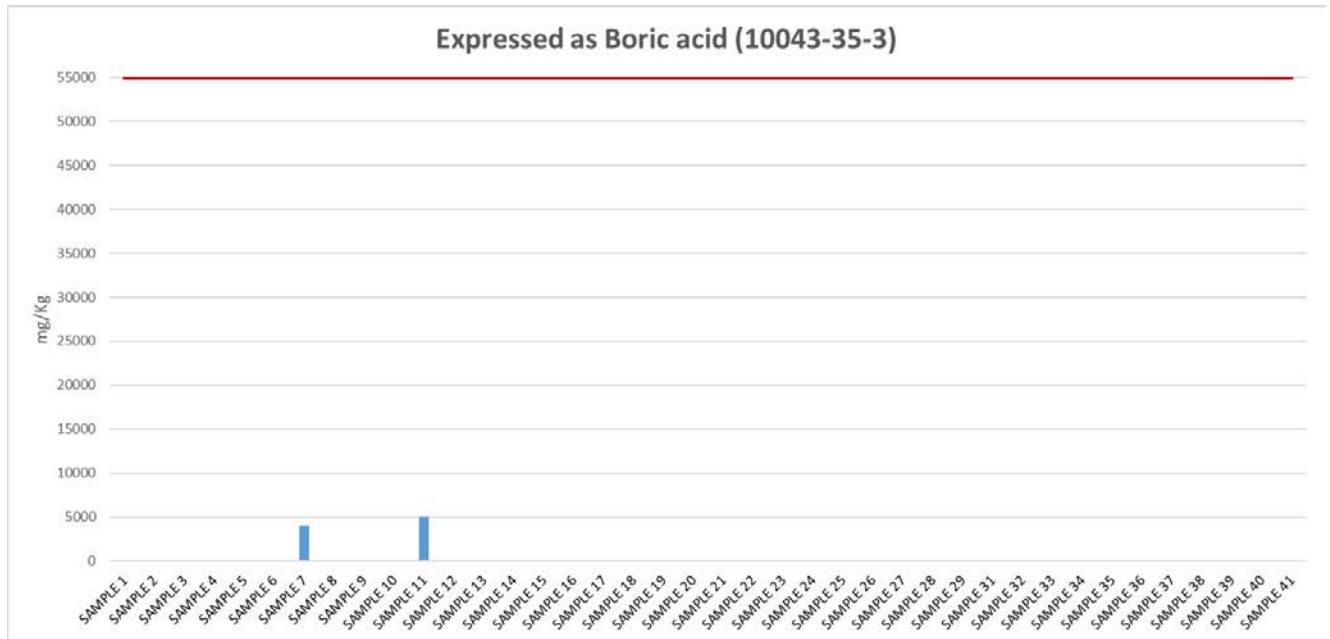
Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133



Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie
Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133

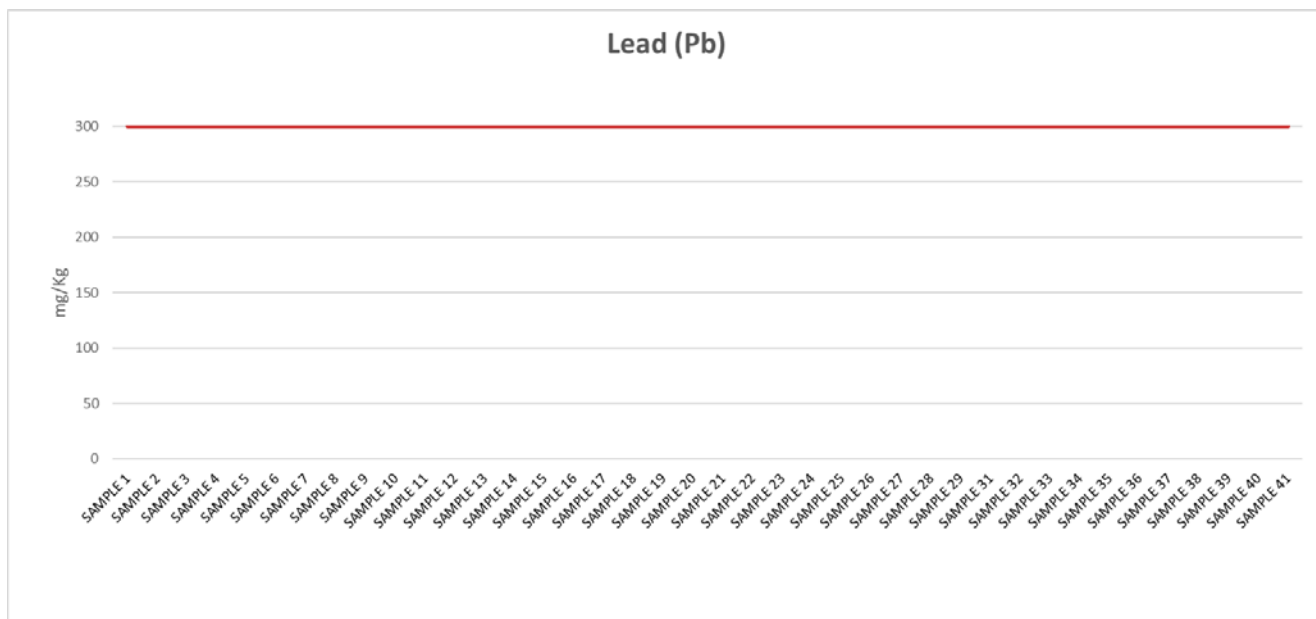
Lead (Pb) - ICP-MS - EN ISO 17294-2 mod.

Among all the tested references, none exceeded the threshold of 0.03% (300 mg/Kg) of Lead (7439-92-1). Thus no non-compliance can be highlighted.

However, we can highlight that the following references contain Lead (7439-92-1):

- SAMPLE 4
- SAMPLE 24

The analysis did not reveal the presence of Lead (7439-92-1) in all the other references.



Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133

5. RESULTS



Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE
Tel : +33 (0)4 42 39 78 08.S.A.S AU CAPITAL
DE 571 000 euros
N° SIRET : 33761796300117

S.A.S AU CAPITAL DE 571 200 euros
Code APE : 7120B
ATS@eurofins.com

Eurofins ATS site de microbiologie

Bâtiment Cèdre 1
97 allée Alexandre Borodine
69800 SAINT PRIEST- FRANCE
Tel : +33 (0)4 26 78 48 88
N° SIRET : 33761796300133

Toxicological assessment of cleaning products

Analysis	Limit (mg/Kg)	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6	SAMPLE 7	SAMPLE 8	SAMPLE 9	SAMPLE 10	SAMPLE 11	SAMPLE 12	SAMPLE 13	SAMPLE 14	SAMPLE 15	SAMPLE 16	SAMPLE 17	SAMPLE 18	SAMPLE 19	SAMPLE 20
Product		PERSIL COLOR	BIMAX	ARIEL	TIDE	SAVEX	LOSK	PERWOLL	BOS MAXIMUM	AL AFRAH	EUREKA CLASSIC	LASKA	PURE	SEMANA AQUA JOY	LENOR	VERNEL	FROSCH	PODSNEJNIK	VANISH GOLD	KUHLSCRANH	CHISTIN
Category		Laundry product											Softener				Textile cleaner	Carpet Cleaner	Surface Cleaner		
Formaldehyde, free and released	1000	<2	<2	<2	3,9	3,1	<2	<2	4,4	<2	3,7	<2	<2	26	8,8	13	<2	<2	8,2	<2	16
Boron (B)	1000	5	1,2	2,8	3,8	7,4	4,8	708	<1	16,5	5,4	890	1,3	<1	<1	<1	<1	<1	3,6	<1	<1
Boron expressed in Boric Acid (10043-35-3)	55 000	29	7	16	22	42	27	4051	<5,72	94	31	5093	7	<5,72	<5,72	<5,72	<5,72	<5,72	21	<5,72	<5,72
Lead (Pb)	300	<0,1	<0,1	<0,1	0,6	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1

Analysis	Limit (mg/Kg)	SAMPLE 21	SAMPLE 22	SAMPLE 23	SAMPLE 24	SAMPLE 25	SAMPLE 26	SAMPLE 27	SAMPLE 28	SAMPLE 29	SAMPLE 31	SAMPLE 32	SAMPLE 33	SAMPLE 34	SAMPLE 35	SAMPLE 36	SAMPLE 37	SAMPLE 38	SAMPLE 39	SAMPLE 40	SAMPLE 41
Product		CARREFOUR	PRIL	BIOLAN	AOS	CARREFOUR	FAIRY	BIOMIO	AVE	CLIN	MR MUSCLE	BIOMIO	PRONTO	CIF	HOMESTAR	SANITOL	SANITARY FORMULA	GUARDINO	GLADE	BLOOM	AIR WICK
Category		Glass Cleaner	Dishwashing Liquid					Glass Cleaner			Surface and-or Kitchen Cleaner						Air Freshener				
Formaldehyde, free and released	1000	2,3	<2	2,2	2,2	<2	2,2	9,6	<2	<2	<2	110	<2	<2	<2	<2	<2	<2	<2	<2	<2
Boron (B)	1000	<1	<1	<1	<1	3,1	<1	5	<1	<1	4,5	4,1	<1	3,1	<1	<1	<1	<1	<1	<1	420
Boron expressed in Boric Acid (10043-35-3)	55 000	<5,72	<5,72	<5,72	<5,72	18	<5,72	29	<5,72	<5,72	26	23	<5,72	18	<5,72	<5,72	<5,72	<5,72	<5,72	<5,72	2403
Lead (Pb)	300	<0,1	<0,1	<0,1	0,2	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1

 compliant result
 non-compliant result