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Chemical analysis Report N° 1317592A01 v2

Baby diapers

15 September 2022

For the attention of **Nathalie MORIN**
Natur'Melodia

Quotation 2022/71299 (DSP 910066)
Reference Contrat annuel 2022 - Analyses chimiques sur des changes bébé

Tested products

TIDOO

Guillaume PETER SOLDANI, *Study Manager*

*This report supersedes report 1317592A01 v2 which has to be destroyed.
The laboratory absolves itself from the use of any previous report. Change in page-layout.*

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This edition includes 43 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

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S.A.S AU CAPITAL DE 714 050 euros
N° SIRET : 33761796300117
Code APE : 7120B

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1. FOREWORD

The aim of this study is to analyse the chemical substances in baby diapers.









TESTED PRODUCTS:



-  **TIDOO**
COUCHE BEBE NATURE TAILLE 4/L 7-18 KG
X 50
Reference: -
Supplier name: FRANCE
Batch N°: A 13:00 06.04.22
Barcode N°: 3760001760064
Provided by: LES CELLULOSES DE BROCELIANDE

The study is based on:

Chemical analysis in a mix of all the components of the diaper

-  EOX/AOX - (1T3VV)
SOP Reference: *INDIKATOR GmbH*
-  Allergens according to Regulation (EC) No 1223/2009 - GC-MS - EN 16274 mod. - (JJ606)
SOP Reference: *Eurofins Consumer Product Testing GmbH*
-  Azo dyes: with extraction ISO 14362-1 :2017 – GC/MS - (YLN1C)
SOP Reference: *Eurofins Textile Testing Spain S.L.U.*
-  Allergic and carcinogenic dyestuff DIN 54231 :2005 – LC/DAD - (YLT9Q)
SOP Reference : *Eurofins Textile Testing Spain S.L.U.*
-  Glyphosate, Glufosinate, AMPA in cotton material - LC-MS/MS - Internal Method - (SFW9Y)
SOP Reference: *SOFIA GMBH*
-  Pesticides– (1T5ZK)
Référence Protocole : *PiCA Prüfinstitut Chemische Analytik GmbH*
-  Bisphenol A and F in packaging material - LC-MS/MS - Internal - for plastics and packaging - (JJ0GR)
SOP Reference: *Eurofins Consumer Product Testing GmbH*
-  Copper (Cu) – ICP – MS – EN ISO 17294-2 mod.- (FIN0U)
SOP Reference: *Eurofins Consumer Product Testing GmbH*

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-  Nickel (Ni) – ICP – MS – EN ISO 17294-2 mod.- (FIN0U)
SOP Reference: Eurofins Consumer Product Testing GmbH
-  Cobalt (Co) – ICP – MS – EN ISO 17294-2 mod.- (FIN0U)
SOP Reference: Eurofins Consumer Product Testing GmbH
-  Chromium (Cr) - ICP/MS - NF EN ISO 17294-2 - (JR0WK)
SOP Reference: Eurofins Consumer Product Testing GmbH
-  Lead (Pb) - ICP/MS - NF EN ISO 17294-2 - (JR0WI)
SOP Reference: Eurofins Consumer Product Testing GmbH
-  Cadmium (Cd) - ICP/MS - NF EN ISO 17294-2 - (JR0WG)
SOP Reference: Eurofins Consumer Product Testing GmbH
-  Mercury (Hg) - ICP/MS - NF EN ISO 17294-2 - (JR0WE)
SOP Reference: Eurofins Consumer Product Testing GmbH
-  Arsenic (As) - ICP/MS - NF EN ISO 17294-2 - (JR0WF)
SOP Reference: Eurofins Consumer Product Testing GmbH
-  Antimony (Sb) - ICP/MS - NF EN ISO 17294-2 - (JR0WH)
SOP Reference: Eurofins Consumer Product Testing GmbH
-  Nonylphenol, octylphenol, Nonylphenolmonoethoxylate in Material – extraction / GPC/ propylation/
GC/MS/MS – (1T3QX)
SOP Reference: PiCA Prüfinstitut Chemische Analytik GmbH
-  VOC – analysis (headspace) – HS-GC-MS – Internal – (JR17A)
SOP Reference: Eurofins Consumer Product Testing GmbH

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Chemical analysis post migration in a synthetic urine simulant (ANSES note dated the 9th of March 2020 - Demand N°2019-SA-0076)

-  Migration preparation test in simulated urine - Preparation - SCL Protocol - Test de préparation - (CH0B0)
SOP Reference: *Eurofins ATS*
-  Polychlorinated dibenzodioxins and -furans (17 PCDD/F): water, drinking water, sewage - GC/MS/MS – Internal method - (GFU02)
SOP Reference: *Eurofins GfA*
-  Polychlorinated biphenyls (12 WHO PCB): water, drinking water, sewage - GC-MS/MS - Internal (GFU07)
SOP Reference: *Eurofins GfA*
-  HAP EPA + EU - GC-MS/MS - Internal method (JC0L2)
SOP Reference: *Eurofins WEJ Contaminants GmbH, Hamburg*
-  Formaldehyde (free and bound) in materials - LC-UV – DNPH derivation (AW0XJ)
SOP Reference: *Eurofins Consumer Product Testing A/S*
-  Extractable content of dimethyl phthalate (DMP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW80)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of diethyl phthalate (DEP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW81)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of diisobutyl phthalate (DIBP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW82)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of dibutyl phthalate (DBP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW83)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of di-n-hexyl phthalate (DnHP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW84)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of benzylbutyl phthalate (BBP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW85)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of di(ethylhexyl) phthalate (DEHP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW86)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of di-n-octyl phthalate (DNOP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW87)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of diisononyl phthalate (DINP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW88)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*

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-  Extractable content of diisodecyl phthalate (DIDP) in materials - GC-MS - CPSC-CH-C1001-09.3 - (AWW89)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of other phthalate in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW90)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of di-n-pentyl phthalate (DNPP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW91)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of dicyclohexyl phthalate (DCP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW92)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of n-pentylisopentyl phthalate (PiPP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW93)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of diisopentyl phthalate (DIPP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW94)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of di(2-methoxyethyl) phthalate (DMEP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW95)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of diisoheptyl phthalate (DIHpP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW96)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of diheptylnonylundecyl phthalate (DHNUP) in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW98)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of 1,2-Benzene dicarboxylic acid, dihexyl ester in materials - GC-MS - CPSC-CH-C1001-09.4 - (AW1FX)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Extractable content of 1,2-Benzene dicarboxylic acid, dipentyl ester in materials - GC-MS - CPSC-CH-C1001-09.4 - (AW1G6)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*
-  Di-C6-C10 alkylphthalates in materials - GC-MS - CPSC-CH-C1001-09.4 - (AWW1A)
SOP Reference: *EUROFINS PRODUCT TESTING A/S*

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2. SYNTHESIS/CONCLUSION

We detect the presence of the following chemical substances in a mix of all the components of the diaper:

AOX (adsorbable organic halogens) 0,8 (LOQ = 0,5) mg/kg

Copper (Cu) - CAS N°:7440-50-8 1,2 (LOQ = 1) mg/kg

Antimony (Sb) - CAS N°:7440-36-0 1,4 (LOQ = 1) mg/kg

After a retest on AOX, Copper and Antimony, results are inferior to the LOQ. Thus, in conclusion, no chemicals substances have been detected in a mix of the whole components of the diaper.

For the analyses in post migration, the following chemicals are detected in the synthetic urine simulant (SCL PROTOCOL):

OctaCDF - CAS N°:39001-02-0 7,85.10⁻⁸ mg/kg of baby diaper

For this chemical substance, the detection is below the ANSES threshold.

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3. RESULTS



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Chemical analysis in a mix of all the components of baby diaper

Brand Manufacturer Denomination Batch n° Sample n°	TIDOO -- COUCHE BEBE NATURE TAILLE 4/L 7-18 KG X 50 A 13:00 06.04.22 866728
Fragrance allergens according to SCCS/1459/11 (CEN method) - GC-MS - DIN EN 16274:2021-11 (mod.)	
alpha-Terpineol - CAS N°:10482-56-1 mg/kg	<1
Limonene - CAS N°:5989-27-5 mg/kg	<1
Acetylcedrene - CAS N°:32388-55-9 mg/kg	<1
Amyl Cinnamal - CAS N°:122-40-7 mg/kg	<1
Amylcinnamylalcohol - CAS N°:101-85-9 mg/kg	<1
Amyl salicylate - CAS N°:2050-08-0 mg/kg	<1
trans-Anethole - CAS N°:4180-23-8 mg/kg	<1
Anise Alcohol - CAS N°:105-13-5 mg/kg	<1
Benzaldehyde - CAS N°:100-52-7 mg/kg	<1
Benzylalcohol - CAS N°:100-51-6 mg/kg	<1
Benzylbenzoate - CAS N°:120-51-4 mg/kg	<1
Benzylcinnamate - CAS N°:103-41-3 mg/kg	<1
Benzylsalicylate - CAS N°:118-58-1 mg/kg	<1
Butylphenyl Methylpropional - CAS N°:80-54-6 mg/kg	<1
Camphor - CAS N°:76-22-2 mg/kg	<1
beta-caryophyllene - CAS N°:87-44-5 mg/kg	<1
Carvone - CAS N°:99-49-0 mg/kg	<1
Cinnamal - CAS N°:104-55-2 mg/kg	<1
Cinnamyl alcohol - CAS N°:104-54-1 mg/kg	<1
Citral - CAS N°:5392-40-5 mg/kg	<1
Citronellol - CAS N°:106-22-9 mg/kg	<1
Coumarin - CAS N°:91-64-5 mg/kg	<1
Rose Ketone-4 - CAS N°:23696-85-7 mg/kg	<1
alpha-Damascone (TMCHB) - CAS N°:23726-94-5 mg/kg	<1
cis-beta-Damascone - CAS N°:23726-92-3 mg/kg	<1
delta-Damascone 5 - CAS N°:7378-68-4 mg/kg	<1
Dimethylbenzyl carbinyl acetate (DMBCA) - CAS N°:151-05-3 mg/kg	<1
Eugenol - CAS N°:97-53-0 mg/kg	<1
Farnesol - CAS N°:4602-84-0 mg/kg	<1
Geraniol - CAS N°:106-24-1 mg/kg	<1
Hexadecanolactone - CAS N°:109-29-5 mg/kg	<1
Hexamethylindanopyran - CAS N°:1222-05-5 mg/kg	<1
Hexylcinnamal - CAS N°:101-86-0 mg/kg	<1
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde - CAS N°:31906-04-4 mg/kg	<1
Hydroxycitronellal - CAS N°:107-75-5 mg/kg	<1
Isoeugenol - CAS N°:97-54-1 mg/kg	<1
Alpha-Isomethyl Ionone - CAS N°:127-51-5 mg/kg	<1
Linalool (major form) - CAS N°:78-70-6 mg/kg	<1
Menthol - CAS N°:1490-04-6 mg/kg	<1
6-Methylcoumarin (Toncarine) - CAS N°:92-48-8 mg/kg	<1
Methyl 2-Octynoate - CAS N°:111-12-6 mg/kg	<1
Methyl salicylate - CAS N°:119-36-8 mg/kg	<1
3-Methyl-5-(2,2,3-Trimethyl-3-cyclopentenyl)pent-4-en-2-ol - CAS N°:67801-20-1 mg/kg	<1
Alpha-pinène - CAS N°:80-56-8 mg/kg	<1
beta-Pinene - CAS N°:127-91-3 mg/kg	<1
Propylidene phthalide - CAS N°:17369-59-4 mg/kg	<1
Salicylaldehyde - CAS N°:90-02-8 mg/kg	<1
Sclareol - CAS N°:515-03-7 mg/kg	<1
Terpineol (mixture of isomers) - CAS N°:8000-41-7 mg/kg	<1
alpha-terpinène - CAS N°:99-86-5 mg/kg	<1
Terpinolene - CAS N°:586-62-9 mg/kg	<1
Tetramethyl acetyloctahydronaphthalenes - CAS N°:54464-57-2 mg/kg	<1
Majantol - CAS N°:103694-68-4 mg/kg	<1
Vanillin - CAS N°:121-33-5 mg/kg	<1
Linalyl acetate - CAS N°:115-95-7 mg/kg	<1
(Z) alpha-santalol - CAS N°:115-71-9 mg/kg	<1
(Z) beta-santalol - CAS N°:77-42-9 mg/kg	<1

Chemical analysis in a mix of all the components of baby diaper

Brand Manufacturer Denomination Batch n° Sample n°	TIDOO -- COUCHE BEBE NATURE TAILLE 4/L 7-18 KG X 50 A 13:00 06.04.22 866728
Pesticides	Screened pesticides Not detected
Bisphenol A and F in packaging material - LC-MS/MS - Internal Method - for plastics and packaging	Bisphenol A - CAS N°:80-05-7 mg/kg Bisphenol F - CAS N°:2467-02-9 mg/kg
OTC (8) envi solids, soil, sludge, liquids - GC-MS - Internal	Monobutyltin (MBT) - CAS N°:78763-54-9 µg/kg Monobutyltin (MBT) - Sn - CAS N°:1118-46-3 µg/kg Dibutyltin (DBT) - CAS N°:818-08-6 µg/kg Dibutyltin (DBT) - Sn - CAS N°:683-18-1 µg/kg Tributyltin (TBT) - CAS N°:688-73-3 µg/kg Tributyltin (TBT) - Sn - CAS N°:1461-22-9 µg/kg Tetrabutyltin (TTBT) - CAS N°:1461-25-2 µg/kg Tetrabutyltin (TTBT) - Sn - CAS N°:1461-25-2 µg/kg Monooctyltin (MOT) - CAS N°:3091-25-6 µg/kg Monooctyltin (MOT) - Sn - CAS N°:3091-25-6 µg/kg Dioctyltin (DOT) - CAS N°:870-08-6 µg/kg Dioctyltin (DOT) - Sn - CAS N°:3542-36-7 µg/kg Triphenyltin (TPHT) - CAS N°:76-87-9 µg/kg Triphenyltin (TPHT) - Sn - CAS N°:639-58-7 µg/kg Tricyclohexyltin (TCyT) - CAS N°:13121-70-5 µg/kg Tricyclohexyltin (TCyT) - Sn - CAS N°:3091-32-5 µg/kg
Glyphosate, Glufosinate, AMPA in cotton material - LC-MS/MS - Internal Method	Aminomethylphosphonic acid (AMPA) - CAS N°:1066-51-9 ng/1 g Glufosinate - CAS N°:51276-47-2 ng/1 g Glyphosate - CAS N°:1071-83-6 ng/1 g
EOX/AOX	EOX (extractable organic halogens) mg/kg AOX (adsorbable organic halogens) mg/kg AOX (adsorbable organic halogens) mg/kg (RETEST)
Copper (Cu) - ICP-MS - DIN EN ISO 17294-2:2007-01 mod.	Copper (Cu) - CAS N°:7440-50-8 mg/kg Copper (Cu) - CAS N°:7440-50-8 mg/kg (RETEST)
Nickel (Ni) - ICP-MS - DIN EN ISO 17294-2:2007-01 mod.	Nickel (Ni) - CAS N°:7440-02-0 mg/kg
Cobalt (Co) - ICP-MS - DIN EN ISO 17294-2:2007-01 mod.	Cobalt (Co) - CAS N°:7440-48-4 mg/kg
Chromium (Cr) - ICP-MS - DIN EN ISO 17294-2:2007-01 mod.	Chromium (Cr) - CAS N°:7440-47-3 mg/kg
Lead (Pb) - ICP-MS [ICP-MS] - DIN EN ISO 17294-2:2007-01 mod.	Lead (Pb) - CAS N°:7439-92-1 mg/kg
Cadmium (Cd) - ICP-MS - DIN EN ISO 17294-2:2007-01 mod.	Cadmium (Cd) - CAS N°:7440-43-9 mg/kg
Mercury (Hg) - ICP-MS - DIN EN ISO 17294-2:2007-01 mod.	Mercury (Hg) mg/kg
Arsenic (As) - ICP-MS - DIN EN ISO 17294-2:2007-01 mod.	Arsenic (As) - CAS N°:7440-38-2 mg/kg
Antimony (Sb) - ICP-MS - DIN EN ISO 17294-2:2007-01 mod.	Antimony (Sb) - CAS N°:7440-36-0 mg/kg Antimony (Sb) - CAS N°:7440-36-0 mg/kg (RETEST)
Nonylphenol, octylphenol, Nonylphenolmonoethoxylate in Material - extraction / GPC / propylation / GC/MS/MS	Nonylphenoldiethoxylate - CAS N°:20427-84-3 mg/kg Nonylphenol Monoethoxylates mg/kg 4-tert-octylphenol - CAS N°:140-66-9 mg/kg Nonylphenol mixed isomers mg/kg Bisphenol A - CAS N°:1478-61-1 mg/kg

Chemical analysis in a mix of all the components of baby diaper

Brand	TIDOO
Manufacturer	--
Denomination	COUCHE BEBE NATURE TAILLE 4/L 7-18 KG X 50
Batch n°	A 13:00 06.04.22
Sample n°	866728
VOC-Headspace-GC/MS - HS-GC-MS - Internal Method	
Benzene - CAS N°:71-43-2 mg/kg	<0,1
Bromobenzene - CAS N°:108-86-1 mg/kg	<0,1
Bromochloromethane - CAS N°:74-97-5 mg/kg	<0,1
Bromodichloromethane - CAS N°:75-27-4 mg/kg	<0,1
Bromoform - CAS N°:75-25-2 mg/kg	<0,1
2-Chlorotoluene - CAS N°:95-49-8 mg/kg	<0,1
4-Chlorotoluene - CAS N°:106-43-4 mg/kg	<0,1
Dibromochloromethane - CAS N°:124-48-1 mg/kg	<0,1
1,2-Dibromoethane - CAS N°:106-93-4 mg/kg	<0,1
Dibromomethane - CAS N°:74-95-3 mg/kg	<0,1
1,2-Dichlorobenzene (o-) - CAS N°:95-50-1 mg/kg	<0,1
1,3-Dichlorobenzene (m-dichlorobenzene) - CAS N°:541-73-1 mg/kg	<0,1
1,4-Dichlorobenzene (p-) - CAS N°:106-46-7 mg/kg	<0,1
1,1-dichloroethane - CAS N°:75-35-3 mg/kg	<0,1
1,2-dichloroethane - CAS N°:107-06-2 mg/kg	<0,1
1,1-Dichloroethene - CAS N°:75-35-4 mg/kg	<0,1
cis 1,2-Dichloroethene - CAS N°:156-59-2 mg/kg	<0,1
Dichloromethane - CAS N°:75-09-2 mg/kg	<0,1
1,2-Dichloropropane - CAS N°:78-87-5 mg/kg	<0,1
1,3-Dichloropropane - CAS N°:142-28-9 mg/kg	<0,1
2,2-Dichloropropane - CAS N°:594-20-7 mg/kg	<0,1
1,1-Dichloropropene - CAS N°:563-58-6 mg/kg	<0,1
Ethylbenzene - CAS N°:100-41-4 mg/kg	<0,1
Hexachlorobutadiene - CAS N°:87-68-3 mg/kg	<0,1
iso-Propylbenzene - CAS N°:98-82-8 mg/kg	<0,1
Monochlorobenzene - CAS N°:108-90-7 mg/kg	<0,1
Naphthalene - CAS N°:91-20-3 mg/kg	<0,1
n-Butylbenzene - CAS N°:104-51-8 mg/kg	<0,1
n-Propylbenzene - CAS N°:103-65-1 mg/kg	<0,1
p-Isopropyltoluene - CAS N°:99-87-6 mg/kg	<0,1
sec-Butylbenzene - CAS N°:135-98-8 mg/kg	<0,1
tert-Butylbenzene - CAS N°:98-06-6 mg/kg	<0,1
Styrene - CAS N°:100-42-5 mg/kg	<0,1
1,1,2,2-tetrachloroethane - CAS N°:79-34-5 mg/kg	<0,1
1,1,1,2-Tetrachloroethane - CAS N°:630-20-6 mg/kg	<0,1
Tetrachloroethene - CAS N°:127-18-4 mg/kg	<0,1
Tetrachloromethane - CAS N°:56-23-5 mg/kg	<0,1
Toluene - CAS N°:108-88-3 mg/kg	<0,1
trans-Dichloroethene - CAS N°:156-60-5 mg/kg	<0,1
1,2,3-Trichlorobenzene - CAS N°:87-61-6 mg/kg	<0,1
1,2,4-Trichlorobenzene - CAS N°:120-82-1 mg/kg	<0,1
1,1,2-trichloroethane - CAS N°:79-00-5 mg/kg	<0,1
1,1,1-Trichloroethane - CAS N°:71-55-6 mg/kg	<0,1
Trichloroethene - CAS N°:79-01-6 mg/kg	<0,1
Chloroform (Trichloromethane) - CAS N°:67-66-3 mg/kg	<0,1
1,2,3-Trichloropropane - CAS N°:96-18-4 mg/kg	<0,1
1,2,4-Trimethylbenzene - CAS N°:95-63-6 mg/kg	<0,1
1,3,5-Trimethylbenzene (Mesitylene) - CAS N°:108-67-8 mg/kg	<0,1
m-/p-Xylene - CAS N°:1330-20-7 mg/kg	<0,1
Xylene (ortho-) - CAS N°:95-47-6 mg/kg	<0,1
TVOC mg/kg	<0,1

Chemical analysis in a mix of all the components of baby diaper

Brand Manufacturer Denomination Batch n° Sample n°	TIDOO -- COUCHE BEBE NATURE TAILLE 4/L 7-18 KG X 50 A 13:00 06.04.22 866728
Determination of azo dyes - GC-MS - EN ISO 14362-1:2017 Annex F + ISO 14362-1:2017 + EN ISO 14362-1:2017	
4-Aminobiphenyl - CAS N°:92-67-1 mg/kg	<5
Benzidin - CAS N°:92-87-5 mg/kg	<5
4-Chlorotoluidine - CAS N°:95-69-2 mg/kg	<5
2-Naphthylamine - CAS N°:91-59-8 mg/kg	<5
p-Chloroaniline - CAS N°:106-47-8 mg/kg	<5
2,4-Diaminoanisole - CAS N°:615-05-4 mg/kg	<5
4,4-Diaminodiphenylmethan - CAS N°:101-77-9 mg/kg	<5
3,3-Dichlorobenzidine - CAS N°:91-94-1 mg/kg	<5
3,3-Dimethoxybenzidine - CAS N°:119-90-4 mg/kg	<5
3,3-Dimethylbenzidine - CAS N°:119-93-7 mg/kg	<5
4,4-Diamino-3,3-dimethyl diphenylmethane - CAS N°:838-88-0 mg/kg	<5
p-Cresidine - CAS N°:120-71-8 mg/kg	<5
4,4-Methylene-bis-2-chloroaniline - CAS N°:101-14-4 mg/kg	<5
4-Aminophenileter - CAS N°:101-80-4 mg/kg	<5
4,4-Thioaniline - CAS N°:139-65-1 mg/kg	<5
o-Toluidine - CAS N°:95-53-4 mg/kg	<5
2,4-Diaminotoluene - CAS N°:95-80-7 mg/kg	<5
2,4,5-Trimethylaniline - CAS N°:137-17-7 mg/kg	<5
o-Anisidine - CAS N°:90-04-0 mg/kg	<5
2,4-Xylidine - CAS N°:95-68-1 mg/kg	<5
2,6-Xylidine - CAS N°:87-62-7 mg/kg	<5
Aniline* - CAS N°:62-53-3 mg/kg	<5
1-4-phenylenediamine* - CAS N°:106-50-3 mg/kg	<5
4-Chloro-o-toluidinium chloride * - CAS N°:3165-93-3 mg/kg	<5
2-Naphthylammoniumacetate * - CAS N°:553-00-4 mg/kg	<5
4-Methoxy-m-phenylene Diammonium Sulphate * - CAS N°:39156-41-7 mg/kg	<5
2,4,5-Trimethylaniline hydrochloride * - CAS N°:21436-97-5 mg/kg	<5
Determination of allergic and carcinogenic dyestuff - LC-MS/MS - DIN 54231:2005	
Disperse Blue 35 - CAS N°:12222-75-2 mg/kg	<15
Disperse Blue 1 - CAS N°:2475-45-8 mg/kg	<15
Disperse Blue 3 - CAS N°:2475-46-9 mg/kg	<15
Disperse Blue 106 - CAS N°:12223-01-7 mg/kg	<15
Disperse Blue 124 - CAS N°:61951-51-7 mg/kg	<15
Disperse Yellow 3 - CAS N°:2832-40-8 mg/kg	<15
Disperse Orange 3 - CAS N°:730-40-5 mg/kg	<15
Disperse Orange 37 - CAS N°:13301-61-6 mg/kg	<15
Disperse Red 1 - CAS N°:2872-52-8 mg/kg	<15
Disperse Yellow 39 * - CAS N°:12236-29-2 mg/kg	<15
Disperse Brown 1 * - CAS N°:23355-64-8 mg/kg	<15
Disperse Yellow 1 * - CAS N°:119-15-3 mg/kg	<15
Disperse Orange 1 * - CAS N°:2581-69-3 mg/kg	<15
Disperse Red 11 * - CAS N°:2872-48-2 mg/kg	<15
Disperse Red 17 * - CAS N°:3179-89-3 mg/kg	<15
Disperse Yellow 49 * - CAS N°:54824-37-2 mg/kg	<15
Disperse Blue 7 * - CAS N°:3179-90-6 mg/kg	<15
Disperse Blue 26 * - CAS N°:3860-63-7 mg/kg	<15
Disperse Yellow 9 * - CAS N°:6373-73-5 mg/kg	<15
Acid Red 26 * - CAS N°:3761-53-3 mg/kg	<15
Basic Red 9 * - CAS N°:596-61-9 mg/kg	<15
Direct Black 38 * - CAS N°:1937-37-7 mg/kg	<15
Direct Blue 6 * - CAS N°:2602-46-2 mg/kg	<15
Basic Violet 14 * - CAS N°:632-99-5 mg/kg	<15
Disperse Orange 11 * - CAS N°:82-28-0 mg/kg	<15
Direct Red 28 * - CAS N°:573-58-0 mg/kg	<15
Basic Violet 3 (with Michler's Ketone > 0.1%) * - CAS N°:548-62-9 mg/kg	<15
Basic Blue 26 (with Michler's Ketone > 0.1%) * - CAS N°:2580-56-5 mg/kg	<15
Navy Blue * - CAS N°:118685-33-9 mg/kg	<15
Disperse Blue 102 * - CAS N°:12222-97-8 mg/kg	<15
Disperse Orange 149 * - CAS N°:85136-74-9 mg/kg	<15
Disperse Yellow 23 * - CAS N°:6250-23-3 mg/kg	<15
Acid Violet 49 * - CAS N°:1694-09-3 mg/kg	<15
Basic Violet 1 * - CAS N°:8004-87-3 mg/kg	<15
Acid Red 114 * - CAS N°:6459-94-5 mg/kg	<15

CHEMICAL ANALYSIS POST-MIGRATION WITH SYNTHETIC URINE SIMULANT
Results expressed in mg / kg of baby diaper

Brand Manufacturer Denomination Batch n°	TIDOO -- COUCHE BEBE NATURE TAILLE 4/L7-18 KG X50 A 13:00 06.04.22	Threshold concentration (issued from ANSES note dated the 9th of March 2020 - Demand N°2019-SA-0076)
Migration preparation test in simulated urine - SCL Protocol		
Average weight before impregnation g	39,72	
Average volume extracted from the diaper ml	305,5	
Formaldehyde (free and bound) in materials - LC-UV - Internal Method DNPH derivation		
Formaldehyde - CAS N°:50-00-0	< 2,31	3,05
PAH acc. to EPA+EU (low LOQ) - GC-MS/MS - Internal Method		
Phenanthrene - CAS N°:85-01-8	< 3,85.10 ⁻³	
Anthracene - CAS N°:120-12-7	< 3,85.10 ⁻³	
Fluoranthene - CAS N°:206-44-0	< 3,85.10 ⁻³	
Pyrene - CAS N°:129-00-0	< 3,85.10 ⁻³	
Benzo(a)anthracène - CAS N°:56-55-3	< 7,69.10 ⁻⁴	2,85.10 ⁻³
Chrysene - CAS N°:218-01-9	< 7,69.10 ⁻⁴	2,85.10 ⁻²
Benzo(b)fluoranthene - CAS N°:205-99-2	< 7,69.10 ⁻⁴	2,85.10 ⁻³
Benzo(k)fluoranthene - CAS N°:207-08-9	< 7,69.10 ⁻⁴	2,85.10 ⁻³
Benzo-(j)-fluoranthene - CAS N°:205-82-3	< 7,69.10 ⁻⁴	2,85.10 ⁻³
Benzo(a)pyrene - CAS N°:50-32-8	< 7,69.10 ⁻⁴	2,85.10 ⁻⁴ (*)
Indeno-(1,2,3-cd)-pyrene - CAS N°:193-39-5	< 3,85.10 ⁻³	2,85.10 ⁻³ (*)
Dibenzo(a,h)anthracene - CAS N°:53-70-3	< 7,69.10 ⁻⁴	2,85.10 ⁻⁴ (*)
Benzo(ghi)Perylene - CAS N°:191-24-2	< 3,85.10 ⁻³	2,85.10 ⁻²
Dibenzo(a,l)pyrene - CAS N°:191-30-0	< 3,85.10 ⁻³	2,85.10 ⁻⁵ (*)
Dibenzo(a,i)pyrene - CAS N°:189-55-9	< 3,85.10 ⁻³	2,85.10 ⁻⁵ (*)
Dibenzo(a,h)pyrene - CAS N°:189-64-0	< 3,85.10 ⁻³	2,85.10 ⁻⁵ (*)
Dibenzo(a,e)pyrene - CAS N°:192-65-4	< 3,85.10 ⁻³	2,85.10 ⁻⁴ (*)
Cyclopenta(c,d)pyrene - CAS N°:27208-37-3	< 3,85.10 ⁻³	2,85.10 ⁻³ (*)
5-Methylchrysene - CAS N°:3697-24-3	< 3,85.10 ⁻³	2,85.10 ⁻²
benzo[c]fluorene - CAS N°:205-12-9	< 3,85.10 ⁻³	1,43.10 ⁻⁵ (*)
Benzo(e)pyrene - CAS N°:192-97-2	< 3,85.10 ⁻³	2,85.10 ⁻²
Perylene - CAS N°:198-55-0	< 3,85.10 ⁻³	
Anthanthrene - CAS N°:191-26-4	< 3,85.10 ⁻³	
Coronen - CAS N°:191-07-1	< 3,85.10 ⁻³	
Benzo(b)naphtho(2,1-d)thiophene - CAS N°:239-35-0	< 3,85.10 ⁻³	
Sum PAH 4	inapplicable	
Sum of all positive identified PAH	inapplicable	
polychlorinated dibenzodioxins and -furans (17 PCDD/F): water, drinking water, sewage - GC-MS/MS - Internal		
2,3,7,8-TetraCDD - CAS N°:1746-01-6	< 5,54.10 ⁻⁹	1,43 .10 ⁻⁸
1,2,3,7,8-PentaCDD - CAS N°:40321-76-4	< 7,38.10 ⁻⁹	1,43 .10 ⁻⁸
1,2,3,4,7,8-HexaCDD - CAS N°:39227-28-6	< 1,48.10 ⁻⁸	1,43 .10 ⁻⁷
1,2,3,6,7,8-HexaCDD - CAS N°:57653-85-7	< 1,48.10 ⁻⁸	1,43 .10 ⁻⁷
1,2,3,7,8,9-HexaCDD - CAS N°:19408-74-3	< 1,48.10 ⁻⁸	1,43 .10 ⁻⁷
1,2,3,4,6,7,8-HeptaCDD - CAS N°:35822-46-9	< 1,26.10 ⁻⁸	1,43 .10 ⁻⁶
OctaCDD - CAS N°:3268-87-9	< 8,92.10 ⁻⁸	4,75 .10 ⁻⁵
2,3,7,8-TetraCDF - CAS N°:51207-31-9	< 9,84.10 ⁻⁹	1,43 .10 ⁻⁷
1,2,3,7,8-PentaCDF - CAS N°:57117-41-6	< 1,32.10 ⁻⁸	4,75 .10 ⁻⁷
2,3,4,7,8-PentaCDF - CAS N°:57117-31-4	< 1,32.10 ⁻⁸	4,75 .10 ⁻⁸
1,2,3,4,7,8-HexaCDF - CAS N°:70648-26-9	< 1,23.10 ⁻⁸	1,43 .10 ⁻⁷
1,2,3,6,7,8-HexaCDF - CAS N°:57117-44-9	< 1,23.10 ⁻⁸	1,43 .10 ⁻⁷
1,2,3,7,8,9-HexaCDF - CAS N°:72918-21-9	< 1,23.10 ⁻⁸	1,43 .10 ⁻⁷
2,3,4,6,7,8-HexaCDF - CAS N°:60851-34-5	< 1,23.10 ⁻⁸	1,43 .10 ⁻⁷
1,2,3,4,6,7,8-HeptaCDF - CAS N°:67562-39-4	< 1,17.10 ⁻⁸	1,43 .10 ⁻⁶
1,2,3,4,7,8,9-HeptaCDF - CAS N°:55673-89-7	< 1,17.10 ⁻⁸	1,43 .10 ⁻⁶
OctaCDF - CAS N°:39001-02-0	7,85.10 ⁻⁸	4,75 .10 ⁻⁵
WHO(2005)-PCDD/F TEQ (lower-bound)	Not detected	
WHO(2005)-PCDD/F TEQ (upper-bound)	2,8.10 ⁻⁸	
I-TEQ (NATO/CCMS) (lower-bound)	Not detected	
I-TEQ (NATO/CCMS) (upper-bound)	2,74.10 ⁻⁸	

CHEMICAL ANALYSIS POST-MIGRATION WITH SYNTHETIC URINE SIMULANT
Results expressed in mg / kg of baby diaper

Brand Manufacturer Denomination Batch n°	TIDOO -- COUCHE BEBE NATURE TAILLE 4/L7-18 KG X50 A 13:00 06.04.22	Threshold concentration (issued from ANSES note dated the 9th of March 2020 - Demand N°2019-SA-0076)
polychlorinated biphenyls (12 WHO PCB): water, drinking water, sewage - GC-MS/MS - Internal		
PCB 77 - CAS N°:32598-13-3	< 2,77.10 ⁻⁷	1,43.10 ⁻⁴
PCB 81 - CAS N°:70362-50-4	< 3,69.10 ⁻⁸	4,75 .10 ⁻⁵
PCB 105 - CAS N°:32598-14-4	< 6.10 ⁻⁷	4,75.10 ⁻⁴
PCB 118 - CAS N°:31508-00-6	< 7,23.10 ⁻⁸	4,75.10 ⁻⁴
PCB 114 - CAS N°:74472-37-0	< 2,15.10 ⁻⁶	4,75.10 ⁻⁴
PCB 123 - CAS N°:65510-44-3	< 6,15.10 ⁻⁸	4,75.10 ⁻⁴
PCB 126 - CAS N°:57465-28-8	< 3,54.10 ⁻⁸	1,43.10 ⁻⁴
PCB 156 - CAS N°:38380-08-4	< 3,38.10 ⁻⁷	4,75.10 ⁻⁴
PCB 157 - CAS N°:69782-90-7	< 1,19.10 ⁻⁷	4,75.10 ⁻⁴
PCB 167 - CAS N°:52663-72-6	< 1,69.10 ⁻⁷	4,75.10 ⁻⁴
PCB 169 - CAS N°:32774-16-6	< 1,85.10 ⁻⁷	4,75.10 ⁻⁷
PCB 189 - CAS N°:39635-31-9	< 6,15.10 ⁻⁸	4,75.10 ⁻⁴
WHO(2005)-PCB TEQ (lower-bound)	Not detected	
WHO(2005)-PCB TEQ (upper-bound)	9,23.10 ⁻⁹	
Extractable content of diethyl phthalate (DEP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Diethylphthalate - CAS N°:84-66-2	< 7,69.10 ⁻²	16,3
Extractable content of diisobutyl phthalate (DIBP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Di-isobutyl phthalate (DIBP) - CAS N°:84-69-5	< 7,69.10 ⁻²	4,07.10 ⁻² (*)
Extractable content of dibutyl phthalate (DBP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Di-n-butylphthalate - CAS N°:84-74-2	< 7,69.10 ⁻²	
Extractable content of di-n-hexyl phthalate (DnHP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Dihexyl phthalate (DHXP) - CAS N°:84-75-3	< 7,69.10 ⁻²	
Extractable content of benzylbutyl phthalate (BBP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Benzyl butyl phthalate - CAS N°:85-68-7	< 7,69.10 ⁻²	
Extractable content of di(ethylhexyl) phthalate (DEHP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Bisethylhexylphthalate - CAS N°:117-81-7	< 7,69.10 ⁻²	
Extractable content of di-n-octyl phthalate (DNOP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Di-n-octylphthalate (DNOP) - CAS N°:117-84-0	< 7,69.10 ⁻²	
Extractable content of diisononyl phthalate (DINP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Diisononylphthalate (DINP) - CAS N°:68515-48-0	< 4,61.10 ⁻¹	
Extractable content of diisodecyl phthalate (DIDP) in materials - GC-MS - CPSC-CH-C1001-09.3		
Diisodecylphthalate (DIDP) - CAS N°:26761-40-0	< 4,61.10 ⁻¹	
Extractable content of other phthalates in materials - GC-MS - CPSC-CH-C1001-09.4		
Other phthalates	< 7,69.10 ⁻¹	
Extractable content of di-n-pentyl phthalate (DNPP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Dipentylphthalate - CAS N°:131-18-0	< 7,69.10 ⁻²	
Extractable content of dicyclohexyl phthalate (DCP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Dicyclohexylphthalat - CAS N°:84-61-7	< 7,69.10 ⁻²	
Extractable content of n-pentylisopentyl phthalate (PiPP) in materials - GC-MS - CPSC-CH-C1001-09.4		
n-Pentylisopentyl phthalate - CAS N°:776297-69-9	< 7,69.10 ⁻²	
Extractable content of diisopentyl phthalate (DIPP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Di-(isopentyl)phthalate (DiPP) - CAS N°:605-50-5	< 7,69.10 ⁻²	
Extractable content of di(2-methoxyethyl) phthalate (DMEP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Di-(2-methoxyethyl)phthalate (DMEP) - CAS N°:117-82-8	< 1,54.10 ⁻¹	
Extractable content of diisoheptyl phthalate (DIHP) in materials - GC-MS - CPSC-CH-C1001-09.4		
DiisoHeptylphthalate (DIHP) - CAS N°:41451-28-9	< 3,85.10 ⁻¹	
Extractable content of diheptylnonylundecyl phthalate (DHNUP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Heptylnonylundecyl phthalate - CAS N°:68515-42-4	< 7,69.10 ⁻²	
Extractable content of 1,2-Benzene dicarboxylic acid, dihexyl ester in materials - GC-MS - CPSC-CH-C1001-09.4		
Diisoheptylphthalate - CAS N°:68515-50-4	< 7,69.10 ⁻²	
Extractable content of 1,2-Benzene dicarboxylic acid, dipentyl ester in materials - GC-MS - CPSC-CH-C1001-09.4		
Phthalic acid, n-pentyl-isopentyl ester (DPP) - CAS N°:84777-06-0	< 7,69.10 ⁻²	
Di-C6-C10 alkylphthalates in materials - GC-MS - CPSC-CH-C1001-09.4		
C6-C10 Mixed phthalates	< 7,69.10 ⁻¹	
Extractable content of dimethylphthalate (DMP) in materials - GC-MS - CPSC-CH-C1001-09.4		
Dimethylphthalate - CAS N°:131-11-3	< 7,69.10 ⁻²	

(*)Today, the EUROFINS LOQ is superior to ANSES threshold

(<) This value corresponds to the quantification limit

4. PROTOCOL

Chemical analysis in a mix of all the components of the diaper

EOX/AOX

The parameters AOX and EOX are sum parameters. Org. halogen compounds of Cl, Br and J are determined. These are in-house procedures based on the standards for AOX and EOX (see below).

AOX

The procedure for the determination of organic halogens in solids is as follows. First, the sample is eluted with hot water. Then the organic halogens dissolved in the water are determined using the methods standardized under the term AOX analysis (DIN EN ISO 9562). Water-soluble and thus mobile organic halogen compounds are thus detected. As this is a sum parameter, it is not possible to identify individual substances.

Alternative: For the determination of samples with an absorbent core we have developed a sample preparation variant. Here the aqueous extract is not prepared by hot water extraction but by elution over 8 hours at 40 °C using 2% sulfuric acid. The actual analysis of the aqueous extract according to DIN EN ISO 9562 is identical.

EOX

The sample is rubbed with silica gel and then extracted with ethyl acetate. The extract is burned in an oxygen stream according to DIN 38414-17. The halogen content is then determined microcoulometrically.

We are accredited for these process routes (determination of organic halogen compounds) according to DIN EN ISO/EC 17025.

Allergens according to Regulation (EC) No 1223/2009 - GC-MS - EN 16274:2012-09, mod.

The aim of this method is to search and quantify the allergens according to the European regulation 1223/2009. The method is based on extraction of allergens from the product to test with tert-butyl-methyl-ether (inert and not volatile solvent). For identification and quantification of allergens, the liquid is injected directly in a system: gas chromatography coupled with mass spectrometer.

Azo dyes with extraction ISO 14362-1 :2017 – GC/MS

Liquid extraction in a buffer solution and purified then measurement by GC-MS according to the standard ISO 14362-1 :2017.

According to the arylamine standard, the test consists of applying the Sample with a Buffer Solution at 70°C for half an hour, after that it is reacted with sodium dithionite, which reduces the amine for another half hour at that temperature.

After this time, the sample is cooled to stop the reaction and the extracting solution is done through diatomaceous earth cartridges, where aliquots of tertbutyl are passed to make a liquid-liquid extraction. The amines turn from the aqueous solution (which is trapped in the column) to the tertbutyl solution. Once the entire organic phase turns to a balloon, it is rotavaporated and its volume is reduced to 2ml - that extract is the one that is analyzed in GC-MS.

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S.A.S AU CAPITAL DE 714 050 euros

N° SIRET : 33761796300117

Code APE : 7120B

Allergic and carcinogenic dyestuff DIN 54231 :2005 – LC/DAD

Detection of disperse dyes according to standard DIN 54231
 0.5±0.01 g of sample treated with methanol (7.5 ml) during 30 min at 70°C±2 with ultrasounds

Glyphosate, Glufosinate, AMPA in cotton material - LC-MS/MS

The aim of this method is to search and to quantify the glyphosate (herbicide) and the aminomethylphosphonic acid (principal product of the glyphosate degradation). The method is based on an extraction in an acid aqueous solution. The quantification is by liquid chromatography combined with a mass spectroscopy. The analysis is performed on the absorbent pad.

Pesticides

The aim of this method is to search and to quantify the organochlorine pesticides and the pyrethroids (insecticides). These substances are extracted from the product with acetone. Before the extraction, water is added to the sample with a quantity chosen according the natural water content of the sample (during the extraction, the ratio acetone/water has to be constant at 2/1 v/v). For the separation liquid/liquid, sodium chloride and a mix of cyclohexane and ethyl acetate are added to the preparation; the whole is mixed carefully, and then allowed to rest for the separation of the different phases. A determinate part of the organic phase is dried with sodium sulfate then reduced in volume. Identical volumes of ethyl acetate and cyclohexane are added successively to the residue. The residual water is removed by a mix of sodium sulfate and sodium chloride; the solution is then filtered. The extract is purified by chromatography with gel permeation. The obtained eluent goes through a small column of silica gel and is eluted with solvents of increasing polarity. This step is necessary for the determination by gas chromatography using a detector with capture of electrons.

The analysis is performed on all components (on a mix of the whole product).

Bisphenol A and F - LC-MS/MS

The test uses ethanol extraction and applies on packaging materials made of plastic, paper or cardboard.

Heavy metals – ICP/MS

Microwave decomposition. Internal method by ICP-MS

Nonylphenol, octylphenol, Nonylphenolmonoethoxylate in Material - extraction / GPC / propylation - GC/MS/MS

A representative sampling of the sample is mixed with a standard and extracted with MTBE in an ultrasonic bath. The measurement is performed by GC/MS/MS in MRM mode.

VOC-analysis (headspace) - HS-GC-MS - Internal

Internal method

Analysis in gas chromatography combined with a mass spectrometer (GC/MS)

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S.A.S AU CAPITAL DE 714 050 euros

N° SIRET : 33761796300117

Code APE : 7120B

Chemical analysis post migration in a synthetic urine simulant (ANSES note dated the 9th of March 2020 - Demand N°2019-SA-0076)

Migration preparation test in simulated urine - Preparation test - SCL Protocol

Random sampling of the diapers from the CUS provided. Impregnation of each diaper with 200 ml of simulated urine every 15 minutes until total volume to be injected according to the size tested (ex: 800 ml for size 4). The impregnated diapers are laid flat then covered and placed in an oven at 37°C for 16h. After these 16h, the diapers are pressed with a strength of 800 N for 5 min in order to collect the urine.

Polychlorinated dibenzodioxins and -furans (17 PCDD/F): water, drinking water, sewage - GC-MS/MS - Internal

The aim of this method is to search and to quantify the dioxins (Polychlorinated dibenzodioxin / PCDD) and furans (Polychlorinated dibenzofuran / PCDF). This on a synthetic urine simulant obtained after migration (SCL protocol)

There are 75 PCDD and 135 PCDF but only 17 are recognized as toxics for man:

Tetrachlorodibenzodioxin, Pentachlorodibenzodioxin, Hexachlorodibenzodioxin (3 conformations), Heptachlorodibenzodioxin, Octachlorodibenzodioxin, Tetrachlorodibenzofuran, Pentachlorodibenzofuran (2 conformations), Hexachlorodibenzofuran (4 conformations), Heptachlorodibenzofuran (2 conformations), Octachlorodibenzofuran..

The extraction of PCDD and PCDF is carried out with toluene (Soxhlet method). The quantification is performed by gas chromatography combined with a mass spectroscopy (high resolution).

Polychlorinated biphenyls: water, drinking water, sewage - GC-MS/MS - Internal

This analysis consists in determining the PCBs content on a synthetic urine simulant obtained after migration (SCL protocol). The method is by GC-MS. The extraction of Polychlorinated biphenyls is carried out with toluene (Soxhlet method). The quantification is performed by gas chromatography combined with a mass spectroscopy (high resolution).

PAH acc. to EPA+EU (low LOQ) - GC-MS/MS - Internal Method

The aim of this method is to search and to quantify the polycyclic aromatic hydrocarbons (PAHs) on a synthetic urine simulant obtained after migration (SCL protocol)

Sample clean-up by automated solid-phase extraction (SPE) and measurement by GC-MS/MS.

Formaldehyde (free and bound) in materials - LC-UV - Internal Method DNPH derivation Internal

The aim of this method is to search and quantify the formaldehyde (CMR substance: carcinogenic, mutagenic and reprotoxic) on a synthetic urine simulant obtained after migration (SCL protocol).

Liquid chromatography/UV detection using dinitrophenylhydrazine DNPH as derivative

Extractable content of phthalates - GC-MS - CPSC-CH-C1001-09.4

Samples with expected high content is diluted before analysis.

The extract is injected to a gas chromatograph with mass selective detector (GC-MS), where the quantitative analyses of the components are performed from calibration standards in the same sequence. Control samples of both high and low levels and a method blank are also carried out.

Eurofins ATS

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S.A.S AU CAPITAL DE 714 050 euros

N° SIRET : 33761796300117

Code APE : 7120B

5. APPENDIX



Eurofins ATS

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S.A.S AU CAPITAL DE 714 050 euros

N° SIRET : 33761796300117

Code APE : 7120B

CAS-Nr.	Parameter	LOQ [mg/kg]
GC-MSMS		
1469-48-3	1,2,3,6-Tetrahydrophthalimide (cis)	0,1
1928-37-6	2,4,5-T-methyl	0,1
53-19-0	2,4-DDD	0,1
3424-82-6	2,4-DDE	0,1
789-02-6	2,4-DDT	0,1
1928-38-7	2,4-D-methyl (2,4-dichlorophenoxy acetate methyl)	0,1
1194-65-6	2,6-Dichlorbenzonitril (Dichlobenil)	0,1
3988-03-2	4,4'-Dibrombenzophenon	0,1
72-54-8	4,4-DDD	0,1
72-55-9	4,4-DDE	0,1
50-29-3	4,4-DDT	0,1
90-98-2	4,4'-Dichlorbenzophenon	0,1
84-65-1	9,10-Anthrachinon	0,1
74070-46-5	Aclonifen	0,1
101007-06-1	Acrinathrin	0,1
309-00-2	Aldrin	0,1
959-98-8	alpha-Endosulfan	0,1
319-84-6	alpha-Hexachlorcyclohexan	0,1
2642-71-9	Azinphos-ethyl	0,1
25059-80-7	Benazolin-Ethylester	0,1
1861-40-1	Benfluralin	0,1
22212-55-1	Benzoylprop-ethyl	0,1
33213-65-9	beta-Endosulfan	0,1
319-85-7	beta-Hexachlorcyclohexan	0,1
42576-02-3	Bifenox	0,1
82657-04-3	Bifenthrin	0,1
485-31-4	Binapacryl	0,1
92-52-4	Biphenyl	0,1
1715-40-8	Bromcyclen	0,1
33399-00-7	Bromfenvinfos	0,1
13104-21-7	Bromfenvinfos-methyl	0,1
4824-78-6	Bromophos-ethyl	0,1
2104-96-3	Bromophos-methyl	0,1
18181-80-1	Bromopropylate	0,1

36335-67-8	Butamifos	0,1
33629-47-9	Butralin	0,1
2425-06-1	Captafol	0,1
133-06-2	Captan	0,1
	Captan (sum inkl. THPI berechnet als Captan)	0,1
786-19-6	Carbophenothion	0,1
953-17-3	Carbophenothion-Methyl (Methyl Trithion)	0,1
128639-02-1	Carfentrazon-ethyl	0,1
2439-01-2	Chinomethionat	0,1
103-17-3	Chlorbenside	0,1
510-15-6	Chlorobenzilate	0,1
	Chlordane (sum)	0,1
54593-83-8	Chlorethoxyfos	0,1
122453-73-0	Chlorfenapyr	0,1
80-33-1	Chlorfenson	0,1
470-90-6	Chlorfenvinphos	0,1
24934-91-6	Chlormephos	0,1
2675-77-6	Chloroneb	0,1
101-21-3	Chlorpropham	0,1
5836-10-2	Chlorpropylat	0,1
5598-13-0	Chlorpyrifos-methyl	0,1
2921-88-2	Chlorpyrifos-ethyl	0,1
1897-45-6	Chlorthalonil	0,1
500-28-7	Chlorthion	0,1
60238-56-4	Chlorthiophos	0,1
84332-86-5	Chlozolate	0,1
5103-71-9	cis-Chlordan	0,1
16416-30-1	cis-Nanochlor	0,1
7700-17-6	Crotoxyphos	0,1
13067-93-1	Cyanofenphos	0,1
2636-26-2	Cyanophos	0,1
68359-37-5	Cyfluthrin	0,1
91465-08-6	Cyhalothrin (lambda)	0,1
52315-07-8	Cypermethrin	0,1
1861-32-1	DCPA (Dacthal, Chlorthal-dimethyl)	0,1
	DDT (sum)	0,1

78-48-8	DEF (Tribufos)	0,1
319-86-8	delta-Hexachlorcyclohexan	0,1
52918-63-5	Deltamethrin	0,1
10311-84-9	Dialifos	0,1
2303-16-4	Diallat	0,1
2463-84-5	DICAPTHON	0,1
97-17-6	Dichlofenthion	0,1
1085-98-9	Dichlofluanid	0,1
51338-27-3	Diclofop-methyl	0,1
99-30-9	Dicloran (Dichloran)	0,1
	Dicofol (Sum)	0,1
60-57-1	Dieldrin	0,1
55290-64-7	Dimethipin	0,1
2274-67-1	Dimethylvinphos	0,1
29091-05-2	Dinitramin	0,1
3811-49-2	Dioxabenzophos	0,1
122-39-4	Diphenylamin	0,1
17109-49-8	Edifenphos	0,1
	Endosulfane (sum)	0,1
3369-52-6	Endosulfan-Ether	0,1
1031-07-8	Endosulfansulfat	0,1
72-20-8	Endrin	0,1
53494-70-5	Endrin Ketone	0,1
55283-68-6	Ethalfuralin	0,1
72-56-0	Ethylan (ethyl-DDD, Perthan)	0,1
38260-54-7	Etrimfos	0,1
52-85-7	Famphur (famophos)	0,1
299-84-3	Fenchlorphos	0,1
	Fenchlorphos (sum)	0,1
3983-45-7	Fenchlorphos oxon	0,1
75867-00-4	Fenfluthrin	0,1
122-14-5	Fenitrothion	0,1
39515-41-8	Fenpropathrin	0,1
80-38-6	Fenson	0,1
51630-58-1	Fenvalerat	0,1
120068-37-3	Fipronil	0,1

	Fipronil (Summe aus Fipronil und Sulfon-Metabolite (MB46136) berechnet als Fipronil)	0,1
205650-65-3	Fipronyl-desulfinyl	0,1
120067-83-6	Fipronil-Sulfide	0,1
120068-36-2	Fipronil-sulfon	0,1
63782-90-1	Flamprop-m-isopropyl	0,1
63729-98-6	Flamprop-m-methyl	0,1
33245-39-5	Fluchloralin	0,1
70124-77-5	Flucythrinate	0,1
62924-70-3	Flumetralin	0,1
31251-03-3	Fluotrimazole	0,1
2314-09-2	Flurenol-butyl	0,1
102851-06-9	Fluvalinate-tau I	0,1
133-07-3	Folpet	0,1
	Folpet (sum, inkl. Folpet und Phthalimid ber. als Folpet)	0,1
944-22-9	Fonofos	0,1
97-16-5	Genite	0,1
111872-58-3	Halfenprox	0,1
76-44-8	Heptachlor	0,1
	Heptachlor (sum)	0,1
1024-57-3	Heptachlorepoxyd (cis)	0,1
28044-83-9	Heptachlorepoxyd (trans)	0,1
118-74-1	Hexachlorbenzol	0,1
18181-70-9	Iodofenphos	0,1
3861-47-0	Ioxynil octanoat	0,1
297-78-9	Isobenzan (Telodrin)	0,1
24353-61-5	Isocarbofos	0,1
465-73-6	Isodrin	0,1
25311-71-1	Isofenphos	0,1
99675-03-3	Isofenphos-methyl	0,1
33820-53-0	Isopropalin	0,1
163520-33-0	Isoxadifen-ethyl	0,1
143390-89-0	Kresoxim-methyl	0,1
21609-90-5	Leptophos	0,1
58-89-9	Lindan	0,1
2436-73-9	MCPA-Methyl	0,1

25319-90-8	MCPA-thioethyl	0,1
2595-54-2	Mecarbam	0,1
73250-68-7	Mefenacet	0,1
950-10-7	Mephosfolan	0,1
62610-77-9	Methacrifos	0,1
40596-69-8	Methopren	0,1
72-43-5	Methoxychlor	0,1
7786-34-7	Mevinphos	0,1
2385-85-5	Mirex	0,1
300-76-5	Naled	0,1
67018-59-1	N-Desethylpirimiphos-Methyl	0,1
4726-14-1	Nitralin	0,1
1929-82-4	Nitrapyrin	0,1
1836-75-5	Nitrofen	0,1
10552-74-6	Nitrothal-isopropyl	0,1
27314-13-2	Norflurazon	0,1
90-43-7	o-Phenylphenol	0,1
19666-30-9	Oxadiazon	0,1
42874-03-3	Oxyfluorfen	0,1
56-38-2	Parathion	0,1
298-00-0	Parathion-methyl	0,1
37680-73-2	PCB 101	0,1
35065-28-2	PCB 138	0,1
35065-27-1	PCB 153	0,1
35065-29-3	PCB 180	0,1
7012-37-5	PCB 28	0,1
35693-99-3	PCB 52	0,1
527-20-8	Pentachloranilin	0,1
1825-21-4	Pentachloranisol	0,1
608-93-5	Pentachlorbenzol	0,1
52645-53-1	Permethrin	0,1
2275-14-1	Phenkapton	0,1
85-41-6	Phthalimid	0,1
137641-05-5	Picolinafen	0,1
24151-93-7	Piperophos	0,1
23505-41-1	Pirimiphos-ethyl	0,1

29232-93-7	Pirimiphos-methyl	0,1
21757-82-4	Plifenat	0,1
32809-16-8	Procymidon	0,1
26399-36-0	Profluralin	0,1
1918-16-7	Propachlor	0,1
31218-83-4	Propetamphos	0,1
34643-46-4	Prothiofos	0,1
2275-18-5	Prothoate	0,1
89784-60-1	Pyraclufos	0,1
13457-18-6	Pyrazophos	0,1
119-12-0	Pyridaphenthion	0,1
88283-41-4	Pyrifenox	0,1
13593-03-8	Quinalphos	0,1
82-68-8	Quintozene	0,1
127-90-2	S 421	0,1
35400-43-2	Sulprofos	0,1
1918-18-9	SWEP	0,1
96182-53-5	Tebupirimfos	0,1
117-18-0	Tecnazene	0,1
79538-32-2	Tefluthrin	0,1
22248-79-9	Tetrachlorvinphos	0,1
116-29-0	Tetradifon	0,1
7696-12-0	Tetramethrin	0,1
2227-13-6	Tetrasul	0,1
731-27-1	Tolyfluanid	0,1
5103-74-2	trans-Chlordan	0,1
118712-89-3	Transfluthrin	0,1
39765-80-5	Nonachlor, trans-	0,1
2303-17-5	Triallat	0,1
327-98-0	Trichloronat	0,1
1582-09-8	Trifluralin	0,1
50471-44-8	Vinclozolin	0,1
LC-MSMS		
86-86-2	1-Naphthylessigsäureamid	0,1
2008-58-4	2,6-Dichlorbenzamid	0,1
2686-99-9	3,4,5-Trimethacarb	0,1

71751-41-2	Abamectin	0,1
30560-19-1	Acephate	0,1
135410-20-7	Acetamiprid	0,1
34256-82-1	Acetochlor	0,1
135158-54-2	Acibenzolar-S-Methyl	0,1
15972-60-8	Alachlor	0,1
83130-01-2	Alanycarb	0,1
54965-21-8	Albendazol	0,1
116-06-3	Aldicarb	0,1
	Aldicarb (Sum)	0,1
1646-87-3	Aldicarb-sulfoxid	0,1
1646-88-4	Aldoxycarb	0,1
865318-97-4	Ametoctradin	0,1
834-12-8	Ametryn	0,1
129909-90-6	Amicarbazon	0,1
120923-37-7	Amidosulfuron	0,1
2032-59-9	Aminocarb	0,1
36001-88-4	Amiprofos-Methyl	0,1
348635-87-0	Amisulbrom	0,1
33089-61-1	Amitraz	0,1
	Amitraz (sum)	0,1
33089-74-6	Amitraz-Metabolit BTS 27271 (N-2,4-Dimethylphenyl - N-methylformamidin)	0,1
12771-68-5	Ancymidol	0,1
64249-01-0	Anilofos	0,1
86-88-4	ANTU	0,1
140-57-8	Aramit	0,1
3244-90-4	Aspon	0,1
3337-71-1	Asulam	0,1
1912-24-9	Atrazin	0,1
	Atrazin (sum)	0,1
6190-65-4	Atrazin, desethyl-	0,1
1007-28-9	Atrazin-Desisopropyl	0,1
60207-31-0	Azaconazol	0,1
35575-96-3	Azamethiphos	0,1
120162-55-2	Azimsulfuron	0,1

86-50-0	Azinphos-methyl	0,1
4658-28-0	Aziprotryne	0,1
131860-33-8	Azoxystrobin	0,1
113614-08-7	Beflubutamid	0,1
71626-11-4	Benalaxyl	0,1
3813-05-6	Benazolin	0,1
22781-23-3	Bendiocarb	0,1
82560-54-1	Benfuracarb	0,1
15310-01-7	Benodanil	0,1
17804-35-2	Benomyl	0,1
98730-04-2	Benoxacor	0,1
83055-99-6	Bensulfuron-methyl	0,1
741-58-2	Bensulid	0,1
177406-68-7	Benthiavalicarb-isopropyl	0,1
82692-44-2	Benzofenap	0,1
149877-41-8	Bifenazat	0,1
55179-31-2	Bitertanol	0,1
581809-46-3	Bixafen	0,1
188425-85-6	Boscalid	0,1
56073-10-0	Brodifacoum	0,1
314-40-9	Bromacil	0,1
28772-56-7	Bromadiolon	0,1
116255-48-2	Bromuconazol	0,1
	Bromuconazole (Sum)	0,1
41483-43-6	Bupirimate	0,1
69327-76-0	Buprofezin	0,1
23184-66-9	Butachlor	0,1
134605-64-4	Butafenacil	0,1
34681-10-2	Butocarboxim	0,1
	Butocarboxim (sum)	0,1
34681-24-8	Butocarboxim-sulfoxid	0,1
34681-23-7	Butoxycarboxim	0,1
3766-60-7	Buturon	0,1
2008-41-5	Butylate	0,1
95465-99-9	Cadusaphos	0,1
125306-83-4	Cafenstrol	0,1

63-25-2	Carbaryl	0,1
10605-21-7	Carbendazim	0,1
	Carbendazim/Benomyl (sum)	0,1
16118-49-3	Carbetamide	0,1
1563-66-2	Carbofuran	0,1
16655-82-6	Carbofuran-3-hydroxy	0,1
55285-14-8	Carbosulfan	0,1
5234-68-4	Carboxin	0,1
104030-54-8	Carpropamid	0,1
500008-45-7	Chlorantraniliprol	0,1
13360-45-7	Chlorbromuron	0,1
6164-98-3	Chlordimeform	0,1
71422-67-8	Chlorfluazuron	0,1
1698-60-8	Chloridazon	0,1
1982-47-4	Chloroxuron	0,1
64902-72-3	Chlorsulfuron	0,1
15545-48-9	Chlorotoluron	0,1
142891-20-1	Cinidon-Ethyl	0,1
87818-31-3	Cinmethylen	0,1
94593-91-6	Cinosulfuron	0,1
99129-21-2	Clethodim	0,1
38083-17-9	Climbazol	0,1
105512-06-9	Clodinafop-Propargylester	0,1
74115-24-5	Clofentezine	0,1
81777-89-1	Clomazone	0,1
84496-56-0	Clomeprop	0,1
99607-70-2	Cloquintocet-mexyl	0,1
147150-35-4	Cloransulam-methyl	0,1
210880-92-5	Clothianidin	0,1
117-52-2	Coumafuryl	0,1
56-72-4	Coumaphos	0,1
5836-29-3	Coumatetralyl	0,1
299-86-5	Crufomat	0,1
99485-76-4	Cumyluron	0,1
21725-46-2	Cyanazin	0,1
120116-88-3	Cyazofamid	0,1

1134-23-2	Cycloat	0,1
136849-15-5	Cyclosulfamuron	0,1
101205-02-1	Cycloxydim	0,1
180409-60-3	Cyflufenamid	0,1
400882-07-7	Cyflumetofen	0,1
61676-87-7	Cymiazol	0,1
57966-95-7	Cymoxanil	0,1
39515-40-7	Cyphenothrin	0,1
22936-86-3	Cyprazin	0,1
94361-06-5	Cyproconazol	0,1
121552-61-2	Cyprodinil	0,1
69581-33-5	Cyprofuram	0,1
66215-27-8	Cyromazin	0,1
42609-52-9	Daimuron	0,1
134-62-3	DEET	0,1
919-86-8	Demeton-S-methyl	0,1
17040-19-6	Demeton-S-Methyl-Sulfon	0,1
13684-56-5	Desmedipham	0,1
1014-69-3	Desmetryn	0,1
80060-09-9	Diafenthiuron	0,1
333-41-5	Diazinon	0,1
37764-25-3	Dichlormid	0,1
62-73-7	Dichlorvos	0,1
75736-33-3	Diclobutrazol	0,1
62865-36-5	Diclomezin	0,1
145701-21-9	Diclosulam	0,1
66-76-2	Dicoumarol	0,1
141-66-2	Dicrotophos	0,1
112636-83-6	Dicyclanil	0,1
87130-20-9	Diethofencarb	0,1
56073-07-5	Difenacoum	0,1
119446-68-3	Difenoconazol	0,1
14214-32-5	Difenoxyuron	0,1
35367-38-5	Diflubenzuron	0,1
83164-33-4	Diflufenican	0,1
109293-97-2	Diflufenzopyr	0,1

115-26-4	Dimefox	0,1
34205-21-5	Dimefuron	0,1
50563-36-5	Dimethachlor	0,1
22936-75-0	Dimethametryn	0,1
87674-68-8	Dimethenamid	0,1
5221-53-4	Dimethirimol	0,1
60-51-5	Dimethoat	0,1
	Dimethoate/Omethoate (sum)	0,1
110488-70-5	Dimethomorph	0,1
644-64-4	Dimetilan	0,1
149961-52-4	Dimoxystrobin	0,1
83657-24-3	Diniconazol	0,1
165252-70-0	Dinotefuran	0,1
6988-21-2	Dioxacarb	0,1
957-51-7	Diphenamid	0,1
4147-51-7	Dipropetryn	0,1
298-04-4	Disulfoton	0,1
	Disulfoton (sum)	0,1
2497-06-5	Disulfoton-Sulfon	0,1
2497-07-6	Disulfoton-Sulfoxid	0,1
330-54-1	Diuron	0,1
1593-77-7	Dodemorph	0,1
2439-10-3	Dodine	0,1
155569-91-8	Emamectin Benzoate	0,1
2104-64-5	EPN	0,1
133855-98-8	Epoxiconazol	0,1
759-94-4	EPTC	0,1
60207-93-4	Etaconazol	0,1
162650-77-3	Ethaboxam	0,1
97780-06-8	Ethametsulfuron-methyl	0,1
30043-49-3	Ethidimuron	0,1
29973-13-4	Ethiofencarb	0,1
	Ethiofencarb (sum)	0,1
53380-23-7	Ethiofencarb-sulfon	0,1
53380-22-6	Ethiofencarb-sulfoxid	0,1
563-12-2	Ethion	0,1

181587-01-9	Ethiprol	0,1
23947-60-6	Ethirimol	0,1
26225-79-6	Ethofumesat	0,1
	Ethofumesat (Sum)	0,1
26244-33-7	Ethofumesat-2-keto	0,1
13194-48-4	Ethoprofos	0,1
126801-58-9	Ethoxysulfuron	0,1
27512-72-7	Ethychozat	0,1
80844-07-1	Etofenprox	0,1
153233-91-1	Etoxazol	0,1
2593-15-9	Etridiazole	0,1
131807-57-3	Famoxadon	0,1
161326-34-7	Fenamidon	0,1
22224-92-6	Fenamiphos	0,1
31972-44-8	Fenamiphos-sulfon	0,1
31972-43-7	Fenamiphos-sulfoxid	0,1
60168-88-9	Fenarimol	0,1
120928-09-8	Fenazaquin	0,1
43210-67-9	Fenbendazol	0,1
114369-43-6	Fenbuconazol	0,1
126833-17-8	Fenhexamid	0,1
3766-81-2	Fenobucarb	0,1
62850-32-2	Fenthiocarb	0,1
71283-80-2	Fenoxaprop-P-Ethyl	0,1
72490-01-8	Fenoxycarb	0,1
74738-17-3	Fenpiclonil	0,1
67306-00-7	Fenpropidin	0,1
67564-91-4	Fenpropimorph	0,1
473798-59-3	Fenpyrazamin	0,1
134098-61-6	Fenpyroximat	0,1
115-90-2	Fensulfothion	0,1
	Fensulfothion (sum)	0,1
6132-17-8	Fensulfothion-oxon-sulfon	0,1
14255-72-2	Fensulfothion-PS-Sulfon	0,1
55-38-9	Fenthion	0,1
	Fenthion (sum)	0,1

6552-12-1	Fenthion-oxon	0,1
14086-35-2	Fenthion-oxon-sulfon	0,1
3761-42-0	Fenthion-sulfon	0,1
3761-41-9	Fenthion-sulfoxid	0,1
101-42-8	Fenuron	0,1
89269-64-7	Ferimzon	0,1
104040-48-0	Flazasulfuron	0,1
90035-08-8	Flocoumafen	0,1
158062-67-0	Flonicamid	0,1
145701-23-1	Florasulam	0,1
229977-93-9	Fluacrypyrim	0,1
69335-91-7	Fluazifop	0,1
	Fluazifop (Sum)	0,1
86811-58-7	Fluazuron	0,1
272451-65-7	Flubendiamid	0,1
86386-73-4	Fluconazol	0,1
113036-88-7	Flucycloxuron	0,1
131341-86-1	Fludioxonil	0,1
142459-58-3	Flufenacet	0,1
101463-69-8	Flufenoxuron	0,1
98967-40-9	Flumetsulam	0,1
103361-09-7	Flumioxazin	0,1
211867-47-9	Flumorph	0,1
2164-17-2	Fluometuron	0,1
239110-15-7	Fluopicolid	0,1
658066-35-4	Fluopyram	0,1
361377-29-9	Fluoxastrobin	0,1
144740-54-5	Flupyrsulfuron-methyl	0,1
136426-54-5	Fluquinconazole	0,1
61213-25-0	Flurochloridon	0,1
59756-60-4	Fluridon (Sonar)	0,1
69377-81-7	Fluroxypyr	0,1
81406-37-3	Fluroxypyr-1-methylheptylester	0,1
56425-91-3	Flurprimidol	0,1
96525-23-4	Flurtamon	0,1
85509-19-9	Flusilazol	0,1

117337-19-6	Fluthiacet-methyl	0,1
66332-96-5	Flutolanil	0,1
76674-21-0	Flutriafol	0,1
907204-31-3	Fluxapyroxad	0,1
72178-02-0	Fomesafen	0,1
173159-57-4	Foramsulfuron	0,1
68157-60-8	Forchlorfenuron	0,1
22259-30-9	Formetanat	0,1
98886-44-3	Fosthiazate	0,1
3878-19-1	Fuberidazol	0,1
57646-30-7	Furalaxyl	0,1
123572-88-3	Furametpyr	0,1
65907-30-4	Furathiocarb	0,1
100784-20-1	Halosulfuron methyl	0,1
69806-34-4	Haloxyfop	0,1
87237-48-7	Haloxyfop-2-Ethoxyethyl	0,1
69806-40-2	Haloxyfop-methyl	0,1
23560-59-0	Heptenophos	0,1
79983-71-4	Hexaconazol	0,1
86479-06-3	Hexaflumuron	0,1
51235-04-2	Hexazinon	0,1
78587-05-0	Hexythiazox	0,1
67485-29-4	Hydramethylnon	0,1
119515-38-7	Icaridin	0,1
35554-44-0	Imazalil	0,1
81405-85-8	Imazamethabenz-methyl	0,1
122548-33-8	Imazosulfuron	0,1
86598-92-7	Imibenconazol	0,1
138261-41-3	Imidacloprid	0,1
82211-24-3	Inabenfide	0,1
144171-61-9	Indoxacarb	0,1
185119-76-0	Iodosulfuron-methyl	0,1
55406-53-6	IPBC	0,1
125225-28-7	Ipconazol	0,1
36734-19-7	Iprodione	0,1
140923-17-7	Iprovalicarb	0,1

28159-98-0	Irgarol	0,1
42509-80-8	Isazophos	0,1
30979-48-7	Isocarbamid	0,1
57052-04-7	Isomethiozin	0,1
28805-78-9	Isonoruron	0,1
2631-40-5	Isoprocarb	0,1
50512-35-1	Isoprothiolan	0,1
34123-59-6	Isoproturon	0,1
881685-58-1	Isopyrazam	0,1
55861-78-4	Isouron	0,1
82558-50-7	Isoxaben	0,1
141112-29-0	Isoxaflutol	0,1
18854-01-8	Isoxathion	0,1
4849-32-5	Karbutilat	0,1
77501-63-4	Lactofen	0,1
2164-08-1	Lenacil	0,1
330-55-2	Linuron	0,1
103055-07-8	Lufenuron	0,1
1634-78-2	Malaoxon	0,1
121-75-5	Malathion	0,1
	Malathion/Malaoxon (sum)	0,1
374726-62-2	Mandipropamid	0,1
519-02-8	Matrine	0,1
7055-03-0	Mebenil	0,1
135590-91-9	Mefenpyr-diethyl	0,1
110235-47-7	Mepanipyrim	0,1
55814-41-0	Mepronil	0,1
208465-21-8	Mesosulfuron-methyl	0,1
139968-49-3	Metaflumizon	0,1
57837-19-1	Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers))	0,1
41394-05-2	Metamitron	0,1
67129-08-2	Metazachlor	0,1
125116-23-6	Metconazol	0,1
18691-97-9	Methabenzthiazuron	0,1

10265-92-6	Methamidophos	0,1
950-37-8	Methidathion	0,1
2032-65-7	Methiocarb	0,1
2179-25-1	Methiocarb-sulfon	0,1
2635-10-1	Methiocarb-sulfoxid	0,1
133408-50-1	Methominostrobin	0,1
16752-77-5	Methomyl	0,1
	Methomyl/Thiodicarb (sum)	0,1
841-06-5	Methoprotryn	0,1
161050-58-4	Methoxyfenozid	0,1
3060-89-7	Metobromuron	0,1
51218-45-2	Metolachlor	0,1
1129-41-5	Metolcarb	0,1
139528-85-1	Metosulam	0,1
19937-59-8	Metoxuron	0,1
220899-03-6	Metrafenon	0,1
21087-64-9	Metribuzin	0,1
74223-64-6	Metsulfuron-methyl	0,1
2212-67-1	Molinat	0,1
6923-22-4	Monocrotophos	0,1
1746-81-2	Monolinuron	0,1
150-68-5	Monuron	0,1
88671-89-0	Myclobutanil	0,1
52570-16-8	Naproanilid	0,1
60397-77-5	N-(2,4-Dimethylphenyl)formamide	0,1
15299-99-7	Napropamide	0,1
555-37-3	Neburon	0,1
111991-09-4	Nicosulfuron	0,1
54-11-5	Nicotin	0,1
120738-89-8	Nitenpyram	0,1
116714-46-6	Novaluron	0,1
58810-48-3	Ofurace	0,1
1113-02-6	Omethoat	0,1
95-54-5	o-Phenylendiamin	0,1
34622-58-7	Orbencarb	0,1
248593-16-0	Orysastrobin	0,1

19044-88-3	Oryzalin	0,1
484-12-8	Osthole	0,1
39807-15-3	Oxadiargyl	0,1
77732-09-3	Oxadixyl	0,1
23135-22-0	Oxamyl	0,1
30558-43-1	Oxamyl-Oxim	0,1
144651-06-9	Oxasulfuron	0,1
53716-50-0	Oxfendazol	0,1
5259-88-1	Oxycarboxin	0,1
301-12-2	Oxydemeton-methyl	0,1
16837-52-8	Oxymatrine	0,1
76738-62-0	Paclobutrazol	0,1
311-45-5	Paraoxon-ethyl	0,1
950-35-6	Paraoxon-methyl	0,1
1114-71-2	Pebulat	0,1
66246-88-6	Penconazol	0,1
66063-05-6	Pencycuron	0,1
40487-42-1	Pendimethalin	0,1
494793-67-8	Penflufen	0,1
219714-96-2	Penoxsulam	0,1
183675-82-3	Penthiopyrad	0,1
106700-29-2	Pethoxamid	0,1
13684-63-4	Phenmedipham	0,1
2597-03-7	Phenthoat	0,1
298-02-2	Phorate	0,1
	Phorate (sum)	0,1
2588-03-6	Phorate-sulfoxid	0,1
2588-04-7	Phorate-sulfon	0,1
2310-17-0	Phosalon	0,1
732-11-6	Phosmet	0,1
3785-33-9	Phosmet-Oxon	0,1
13171-21-6	Phosphamidon	0,1
14816-18-3	Phoxim	0,1
117428-22-5	Picoxystrobin	0,1
243973-20-8	Pinoxaden	0,1
51-03-6	Piperonylbutoxid	0,1

23103-98-2	Pirimicarb	0,1
	Pirimicarb (Sum)	0,1
30614-22-3	Pirimicarb-desmethyl	0,1
27218-04-8	Pirimicarb-Desmethylformamido	0,1
51218-49-6	Pretilachlor	0,1
86209-51-0	Primisulfuron methyl	0,1
67747-09-5	Prochloraz	0,1
41198-08-7	Profenophos	0,1
139001-49-3	Profoxydim-Lithium	0,1
2631-37-0	Promecarb	0,1
1610-18-0	Prometon	0,1
7287-19-6	Prometryn	0,1
24579-73-5	Propamocarb	0,1
111479-05-1	Propaquizafop	0,1
2312-35-8	Propargit	0,1
139-40-2	Propazin	0,1
122-42-9	Propham	0,1
60207-90-1	Propiconazol	0,1
86763-47-5	Propisochlor	0,1
114-26-1	Propoxur	0,1
181274-15-7	Propoxycarbazon Natrium	0,1
23950-58-5	Propyzamid	0,1
189278-12-4	Proquinazid	0,1
52888-80-9	Prosulfocarb	0,1
94125-34-5	Prosulfuron	0,1
	Prothioconazol (sum)	0,1
120983-64-4	Prothioconazol-desthio	0,1
123312-89-0	Pymetrozin	0,1
158353-15-2	Pyraclonil	0,1
175013-18-0	Pyraclostrobin	0,1
129630-19-9	Pyraflufen-ethyl	0,1
58011-68-0	Pyrazolynat	0,1
93697-74-6	Pyrazosulfuron-ethyl	0,1
71561-11-0	Pyroazoxyfen	0,1
8003-34-7	Pyrethrin	0,1
168088-61-7	Pyribenzoxim	0,1

88678-67-5	Pyributicarb	0,1
96489-71-3	Pyridaben	0,1
179101-81-6	Pyridalyl	0,1
55512-33-9	Pyridat	0,1
337458-27-2	Pyrifluquinazon	0,1
135186-78-6	Pyriftalid	0,1
53112-28-0	Pyrimethanil	0,1
105779-78-0	Pyrimidifen	0,1
5221-49-8	Pyrimitate	0,1
95737-68-1	Pyriproxyfen	0,1
422556-08-9	Pyroxsulam	0,1
2797-51-5	Quinoclamine	0,1
124495-18-7	Quinoxifen	0,1
100646-51-3	Quizalofop-P-ethyl	0,1
119738-06-6	Quizalofop-P-tefuryl	0,1
40341-04-6	Rabenzazol	0,1
10453-86-8	Resmethrin	0,1
122931-48-0	Rimsulfuron	0,1
83-79-4	Rotenone	0,1
481-06-1	Santonin	0,1
26259-45-0	Secbumeton	0,1
74051-80-2	Sethoxydim	0,1
1982-49-6	Siduron	0,1
105024-66-6	Silafluofen	0,1
175217-20-6	Silthiofam	0,1
122-34-9	Simazin	0,1
149508-90-7	Simeconazol	0,1
1014-70-6	Simetryn	0,1
935545-74-7	Spinetoram	0,1
168316-95-8	Spinosad	0,1
148477-71-8	SPIRODICLOFEN	0,1
283594-90-1	SPIROMESIFEN	0,1
203313-25-1	Spirotetramat	0,1
	Spirotetramat (sum)	0,1
1172614-86-6	Spirotetramat-enol-glucoside	0,1
1172134-12-1	spirotetramat-monohydroxy	0,1

1172134-11-0	Spirotetramat-ketohydroxy	0,1
203312-38-3	Spirotetramat-enol	0,1
118134-30-8	Spiroxamine	0,1
122836-35-5	Sulfentrazone	0,1
74222-97-2	Sulfometuron-methyl	0,1
141776-32-1	Sulfosulfuron	0,1
3689-24-5	Sulfotep	0,1
21564-17-0	TCMTB (Busan)	0,1
107534-96-3	Tebuconazol	0,1
112410-23-8	Tebufenozide	0,1
119168-77-3	Tebufenpyrad	0,1
35256-85-0	Tebutam	0,1
34014-18-1	Tebuthiuron	0,1
83121-18-0	Teflubenzuron	0,1
335104-84-2	Tembotrione	0,1
107-49-3	TEPP	0,1
149979-41-9	Tepraloxymid	0,1
5902-51-2	Terbacil	0,1
1918-11-2	Terbucarb	0,1
13071-79-9	Terbufos	0,1
56070-16-7	Terbufos-sulfon	0,1
10548-10-4	Terbufos-sulfoxid	0,1
33693-04-8	Terbumeton	0,1
5915-41-3	Terbutylazin	0,1
30125-63-4	Terbutylzin-desethyl	0,1
886-50-0	Terbutryn	0,1
112281-77-3	Tetraconazole	0,1
96491-05-3	Thenylchlor	0,1
148-79-8	Thiabendazol	0,1
948-71-0	Thiabendazol-5-hydroxy	0,1
111988-49-9	Thiaclopid	0,1
153719-23-4	Thiamethoxam	0,1
25366-23-8	Thiazafluron	0,1
51707-55-2	Thidazuron	0,1
317815-83-1	Thiencarbazon-methyl	0,1
79277-27-3	Thifensulfuron-methyl	0,1

28249-77-6	Thiobencarb	0,1
31895-22-4	Thiocyclam Hydrogenoxalat	0,1
59669-26-0	Thiodicarb	0,1
39184-59-3	Thiofanox-sulfon	0,1
297-97-2	Thionazin	0,1
23564-06-9	Thiophanat-Ethyl	0,1
23564-05-8	Thiophanate-methyl	0,1
57018-04-9	Tolclofos-methyl	0,1
129558-76-5	Tolfenpyrad	0,1
210631-68-8	Topramezon	0,1
87820-88-0	Tralkoxydim	0,1
43121-43-3	Triadimefon	0,1
55219-65-3	Triadimenol	0,1
	Triadimenol/Triadimefon (sum)	0,1
1031-47-6	Triamiphos	0,1
82097-50-5	Triasulfuron	0,1
24017-47-8	Triazophos	0,1
72459-58-6	Triazoxide	0,1
101200-48-0	Tribenuron-methyl	0,1
52-68-6	Trichlorfon	0,1
68786-66-3	Triclabendazol	0,1
41814-78-2	Tricyclazol	0,1
81412-43-3	Tridemorph	0,1
1912-26-1	Trietazin	0,1
141517-21-7	Trifloxystrobin	0,1
199119-58-9	Trifloxysulfuron sodium	0,1
68694-11-1	Triflumizol	0,1
	Triflumizol (sum)	0,1
131549-75-2	Triflumizole-amino	0,1
64628-44-0	Triflumuron	0,1
126535-15-7	Triflusulfuron-methyl	0,1
26644-46-2	Triforin	0,1
95266-40-3	Trinexapac-ethyl	0,1
38748-32-2	Triptolide	0,1
131983-72-7	Triticonazol	0,1
142469-14-5	Tritosulfuron	0,1

83657-22-1	Uniconazol	0,1
283159-90-0	Valifenalate	0,1
2275-23-2	Vamidotion	0,1
70898-34-9	Vamidotion-sulfon	0,1
20300-00-9	Vamidotion-sulfoxid	0,1
81-81-2	Warfarin	0,1
2655-14-3	XMC	0,1
2425-10-7	Xylylcarb	0,1
156052-68-5	Zoxamide	0,1