



Analyser av leksaker från second hand-butiker

MILJÖPOLICY FÖR GÖTEBORGS STAD

Miljöpolicyn beskriver vårt gemensamma synsätt på miljöarbetet. I Göteborgs Stad ska vi arbeta tillsammans för en god livsmiljö och en hållbar utveckling. Miljöhänsyn ska vara en självklar del i beslut i alla nämnder, styrelser och verksamheter i stadens regi.

Vi ska vara föregångare och se vår del av helheten

Göteborgs Stad ska vara en föregångare på miljöområdet och eftersträva ett kretsloppssamhälle genom att förebygga och åtgärda miljöproblem. Ekologisk hållbarhet är nödvändigt för miljön och ger ett stort mervärde för människors livskvalitet. Vi måste arbeta långsiktigt med alla tre dimensionerna av hållbar utveckling - den ekologiska, den sociala och den ekonomiska - eftersom de är varandras förutsättningar.

Vi ska minska vår miljöpåverkan till nytta för medborgarna

Tillsammans ska vi minska vår miljöpåverkan, både i vårt interna miljöarbete och i våra olika uppdrag att driva verksamhet till nytta för medborgarna. Vi ska skapa en god livsmiljö för alla som bor, arbetar i eller besöker Göteborg – nu och i framtiden, här och globalt. Om Göteborgs Stad ska bidra till ett rättvist miljöutrymme för alla kan vi inte skjuta miljöproblem utanför kommungränsen eller in i framtiden. Miljöarbetet ska vara en naturlig del i vårt dagliga arbete och det är självklart att vi ska uppfylla lagar och krav som berör vår verksamhet. Men vi ska också sträva efter att göra mer än lagen kräver genom att arbeta med ständiga förbättringar på miljöområdet.

Vi ska inspirera och utbyta kunskap med andra

Genom att driva på utvecklingen och visa på goda exempel vill vi inspirera och underlätta för medborgare, företagare, intresseorganisationer med flera att minska sin miljöpåverkan. Ett framgångsrikt miljöarbete förutsätter att vi utbyter kunskap och utvecklar samarbete med andra aktörer i samhället.

Vi uppnår detta bland annat genom att arbeta med stadens lokala miljökvalitetsmål och miljöprogrammet. Några viktiga områden är:

- Minskad klimatpåverkan
- Ökad andel hållbart resande
- Ökad resurshushållning
- En sundare livsmiljö
- Främjad biologisk mångfald
- Tillgängliga och varierade parker och naturområden
- Göteborgs Stad som föregångare

Innehåll

Inledning.....	2
Metod	3
Resultat.....	4
31 varor är analyserade	4
Ftalater i de analyserade varorna	4
Lagstiftningen	5
Miljöbalkens 2 kapitel, allmänna hänsynsregler	5
Gällande begränsning ftalater i leksaker infördes 2007.....	5
Kortkedjiga klorparaffiner, SCCP	6
Slutsatser	7
Bilaga 1.....	8
Bilaga 2.....	32

Rapporten är sammanställd av Karin Kruse och Ulrika Siemers, miljöförvaltningen, Göteborgs Stad

Inledning

Miljöprogrammet för Göteborgs stad innehåller sammanlagt 212 åtgärder, framtagna för att genomföras och därigenom bidra till att nå våra lokala miljökvalitetsmål. En av åtgärderna är att vi, miljöförvaltningen, ska öka antalet kemiska analyser av varor och därigenom få kunskap om vilka varor som kan innehålla miljö- och hälsoskadliga kemikalier.

I detta delprojekt för åtgärd 96 i miljöprogrammet har vi bland annat valt att analysera leksaker som säljs i second hand-butiker. År 2007 trädde en begränsning i kraft som reglerar ftalater i leksaker. Det finns därför en farhåga att mjukgjorda plastleksaker som är tillverkade innan år 2007 kan innehålla ftalater med reproduktionstoxiska egenskaper.

Det finns också andra varor av mjuk plast som används av barn på liknande sätt som leksaker, som ännu inte omfattas av någon begränsning av ftalatinnehåll. För att öka kunskapen om kemikalieinnehållet i denna typ av varor har vi även köpt in regnkläder till barn och små väskor. Vi har också analyserat några nya varor till barn, så kallade give-aways och leksaker från myntautomater, gjorda av mjuk plast.

Metod

Vi har köpt varor i följande butiker:

Myrorna, Järntorgsgatan
Emmaus Björkå, Ångpannegatan
Holmens marknad, Ryttmästaregatan 3
Ebbes Hörna, Korpralsgatan
Erikshjälpen, Fältspatsgatan 6
Kris, Karl-Johansgatan
Sagobjörnen, Bangatan
Tuvegårdens, Ångpannegatan

Butikerna är inte valda utifrån några speciella kriterier. I efterhand kan urvalet av butiker anses väl spegla hur second hand-marknaden i en större stad ser ut. Främst stora ideella aktörer men även en del stora och små privata aktörer. Vi kan tillägga att vi besökte ytterligare ett fåtal butiker som inte hade någon försäljning av mjuka plastleksaker. Om de medvetet var bortrensade eller inte har vi inte vetskaps om.

Varorna skickade vi för kemisk analys till Eurofins. Analyserna omfattar sammanlagt 16 ftalater som ingår i så kallat ftalatpaket och kortkedjiga klorparaffiner, SCCP.

En generell sammanfattning av analysresultaten är skickade till butikerna vi köpte varorna i. Vi har i brevet uppmanat butikerna till att sprida informationen vidare till andra butiker som tillhör samma organisation.

Vi har också anordnat ett frukostmöte på miljöförvaltningen för att informera om resultatet och diskutera möjliga åtgärder.

Resultat

Här redovisas en sammanfattning av analysresultaten. Fullständiga analysresultat finns i bilaga 2.

31 varor är analyserade

En leksak/”giveaway” kommer från folktandvården och tre leksaker från myntautomater i livsmedelsaffär. Dessa fyra leksaker innehöll inga detekterbara halter av SCCP eller inga ftalater i halter över 0,1 procent.

27 varor är köpta i second hand-butiker, tre regnjackor till barn, sex små plastväskor, ett cyklop och sjutton leksaker. Alla regnjackorna innehöll ftalaten DEHP i hög halt och väskorna innehöll alla också olika ftalater och kortkedjiga klorparaffiner, SCCP. Av sjutton leksaker inköpta på second hand innehöll elva höga halter av olika ftalater, som idag är förbjudna i leksaker i halter över 0,1 procent.

Ftalater i halter över 0,1 procent i de analyserade varorna

DEHP Cas nr 117-81-7

Diisobutylftalat Cas nr 84-69-5

DBP, Dibutylftalat Cas nr 84-74-2

BBP, Butylbenzylftalat Cas nr 85-68-7

DINP, Diisononylftalat Cas nr 68515-48-0

DIDP, Diisodecylftalat Cas nr 26761-40-0

Lagstiftningen

Miljöbalkens 2 kapitel, allmänna hänsynsregler

2 § Alla som bedriver eller avser att bedriva en verksamhet eller vidta en åtgärd skall skaffa sig den kunskap som behövs med hänsyn till verksamhetens eller åtgärdens art och omfattning för att skydda människors hälsa och miljön mot skada eller olägenhet.

3 § Alla som bedriver eller avser att bedriva en verksamhet eller vidta en åtgärd skall utföra de skyddsåtgärder, iaktta de begränsningar och vidta de försiktighetsmått i övrigt som behövs för att förebygga, hindra eller motverka att verksamheten eller åtgärden medför skada eller olägenhet för människors hälsa eller miljön. I samma syfte skall vid yrkesmässig verksamhet användas bästa möjliga teknik. Dessa försiktighetsmått skall vidtas så snart det finns skäl att anta att en verksamhet eller åtgärd kan medföra skada eller olägenhet för människors hälsa eller miljön.

4 § Alla som bedriver eller avser att bedriva en verksamhet eller vidta en åtgärd skall undvika att använda eller sälja sådana kemiska produkter eller biotekniska organismer som kan befaras medföra risker för människors hälsa eller miljön, om de kan ersättas med sådana produkter eller organismer som kan antas vara mindre farliga. Motsvarande krav gäller i fråga om varor som innehåller eller har behandlats med en kemisk produkt eller bioteknisk organism.

Gällande begränsning ftalater i leksaker infördes 2007

Ftalaterna DEHP, DBP och BBP kan påverka balansen av vissa hormoner i kroppen och skada fortplantningsförmågan. De klassificeras som reproduktionsstörande och får inte användas som ämne eller som beståndsdelar i blandningar i koncentrationer som överstiger 0,1 procent (avser sammanlagd halt DEHP, DBP och BBP) uttryckt i massa av det mjukgjorda materialet i leksaker och barnavårdsartiklar.

Leksaker eller barnavårdsartiklar som innehåller ftalaterna i en koncentration som överstiger ovan nämnda gränsvärde får inte släppas ut på marknaden. Ftalaterna DINP, DIDP och DNOP får inte användas som ämne eller som beståndsdel i blandningar i koncentrationer som överstiger 0,1 procent (avser sammanlagd halt DINP, DIDP och DNOP) uttryckt i massa av det mjukgjorda materialet i leksaker och barnavårdsartiklar. Leksaker eller barnavårdsartiklar som innehåller ftalaterna i en koncentration som överstiger ovan nämnda gränsvärde får inte släppas ut på marknaden.

Kortkedjiga klorparaffiner, SCCP

Kortkedjiga klorparaffiner, SCCP, är förbjudna inom EU genom EU:s förordning om långlivade organiska föreningar, POPs-förordningen, eftersom de är skadliga för vattenlevande organismer och mycket långlivade i naturen. Förbudet gäller inte varor som var i användning före den 10 juli 2012.

Slutsatser

Elva av sjutton leksaker, köpta i second hand-butiker i Göteborg, innehöll höga halter av ftalater. Även andra varor som används av barn innehöll höga halter av ftalater. Kortkedjiga klorparaffiner, SCCP, var också vanligt förekommande.

Begränsningen av ftalater i leksaker trädde i kraft 2007. Det är mycket troligt att leksakerna är äldre än så. Det främst inte second hand-butikerna deras ansvar för leksaker som säljs, dåremot är det omöjligt att ha kunskap om enskilda leksaker som lämnas in. Miljöbalkens allmänna hänsynsregler innebär att alla som bedriver verksamhet ska skaffa sig den kunskap, och vidta åtgärder, som behövs för att hindra eller motverka att verksamheten medför skada eller olägenhet för människors hälsa och miljö. För att minska mängden farliga kemikalier i barns vardag är miljöförvaltningens bedömning att mjuka plastleksaker som kan antas vara äldre än 2007 inte bör säljas vidare. Även andra varor till barn som i detta fall regnjackor av PVC och små väskor i plast bör inte säljas vidare. Det finns visserligen inget förbud för ftalater i dessa varor men för att bidra till att uppnå vårt miljökvalitetsmål Giftfri miljö är det betydelsefullt.

Problemet är ju rimligen generellt för branschen och informationen bör nå ut nationellt. Av denna anledning har vi också valt att gå ut med ett pressmeddelande.

Bilaga 1



18 % DEHP



OK!



14 % DEHP



OK!



22 % DEHP



15 % DEHP



40 % DINP



Häst 15 % DEHP
Ior 33 % DINP



8,5 % DEHP



0,22 % SCCP



29 % DIBP
4,7 % SCCP



2,8 % DEHP



Röd 12 % DEHP
Blå 9,7 % DEHP



12 % DEHP



Ej analyserad



Ok!



13 % DEHP



7,4 % DEHP



23 % DINP



11 % DEHP



12 % DINP



OK!



14 % DEHP

Bilaga 2

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0218

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0218

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120485 1.Docka Emmaus

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0218

sample identification: A177-2016-10120485

1.Docka Emmaus

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	90	mg/kg	20
dibutyl phthalate	84-74-2	520	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	85000	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0219

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0219

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120486 2. Tiger

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0219

sample identification: A177-2016-10120486

2. Tiger

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		2200	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	50	mg/kg	20
dibutyl phthalate	84-74-2	<20	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	<50	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0220
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0220

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120487 3. Emmaus Giraff

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0220

sample identification: A177-2016-10120487

3. Emmaus Giraff

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		47000	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	290000	mg/kg	20
dibutyl phthalate	84-74-2	1800	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	4400	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0221
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0221

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120488 4. Väcka Emmaus Rosa

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0221

sample identification: A177-2016-10120488

4. Väска Emmaus Rosa

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		200	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	370	mg/kg	20
dibutyl phthalate	84-74-2	61	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	28000	mg/kg	50
diisononyl phthalate	68515-48-0	17000	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany

Eurofins Enviroment Testing Schweden AB

Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0222

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0222

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120489 5. Regnjacka Emmaus Röd

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0222

sample identification: A177-2016-10120489

5. Regnjacka Emmaus Röd

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	160	mg/kg	20
dibutyl phthalate	84-74-2	130	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	120000	mg/kg	50
diisononyl phthalate	68515-48-0	1600	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.


Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany

Eurofins Enviroment Testing Schweden AB

Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0223

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0223

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120490 6. Regnjacka Emmaus Blå

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0223

sample identification: A177-2016-10120490

6. Regnjacka Emmaus Blå

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	700	mg/kg	20
dibutyl phthalate	84-74-2	320	mg/kg	20
butyl benzyl phthalate	85-68-7	52	mg/kg	20
DEHP	117-81-7	97000	mg/kg	50
diisononyl phthalate	68515-48-0	420	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	220	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0224
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0224

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120491 7. Myrorna Väска

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0224

sample identification: A177-2016-10120491

7. Myrorna Väiska

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	160	mg/kg	20
dibutyl phthalate	84-74-2	250	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	120000	mg/kg	50
diisononyl phthalate	68515-48-0	500	mg/kg	100
diisodecyl phthalate	26761-40-0	190	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.


Stefan Kutschau
 project manager
M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany

Eurofins Enviroment Testing Schweden AB

Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0225

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0225

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120492 9. Erikshjälpen Docka

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0225

sample identification: A177-2016-10120492

9. Erikshjälpen Docka

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	22	mg/kg	20
dibutyl phthalate	84-74-2	46	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	60	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0226

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0226

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120493 10. Häst Erikshjälpen

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0226

sample identification: A177-2016-10120493

10. Häst Erikshjälpen

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		2500	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	39	mg/kg	20
dibutyl phthalate	84-74-2	47	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	130000	mg/kg	50
diisononyl phthalate	68515-48-0	140	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0227
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0227

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120494 11. Erikshjälpen väska

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0227

sample identification: A177-2016-10120494

11. Erikshjälpen väska

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		940	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	530	mg/kg	20
dibutyl phthalate	84-74-2	950	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	74000	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.


Stefan Kutschau
 project manager
M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0228
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0228

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120495 12. Erikshjälpen Ryggsäck

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0228

sample identification: A177-2016-10120495

12. Erikshjälpen Ryggsäck

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	210	mg/kg	20
dibutyl phthalate	84-74-2	730	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	470	mg/kg	50
diisononyl phthalate	68515-48-0	230000	mg/kg	100
diisodecyl phthalate	26761-40-0	940	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0229
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0229

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120496 13. Regnjacka Ebbes hörna

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0229

sample identification: A177-2016-10120496

13. Regnjacka Ebbes hörna

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		26000	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	69	mg/kg	20
dibutyl phthalate	84-74-2	140	mg/kg	20
butyl benzyl phthalate	85-68-7	57	mg/kg	20
DEHP	117-81-7	110000	mg/kg	50
diisononyl phthalate	68515-48-0	200	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
project manager
M.Sc. Pharmaceutical and Chemical Engineering
phone +49(0)30/255 66 00-72
e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0230

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0230

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120497 14. Ebbes Hörna Väskan

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0230

sample identification: A177-2016-10120497

14. Ebbes Höra Väskä

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		135	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	550	mg/kg	20
dibutyl phthalate	84-74-2	380	mg/kg	20
butyl benzyl phthalate	85-68-7	36	mg/kg	20
DEHP	117-81-7	1200	mg/kg	50
diisononyl phthalate	68515-48-0	120000	mg/kg	100
diisodecyl phthalate	26761-40-0	4300	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.


Stefan Kutschau
 project manager
M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0231
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0231

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120498 15. Hammare

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0231

sample identification: A177-2016-10120498

15. Hammare

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	120	mg/kg	20
dibutyl phthalate	84-74-2	72	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	260	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
project manager
M.Sc. Pharmaceutical and Chemical Engineering

phone +49(0)30/255 66 00-72

e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0232
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0232

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120499 16. Troll Ebbes Hörna

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0232

sample identification: A177-2016-10120499

16. Troll Ebbes Hörla

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	84	mg/kg	20
dibutyl phthalate	84-74-2	3200	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	140000	mg/kg	50
diisononyl phthalate	68515-48-0	280	mg/kg	100
diisodecyl phthalate	26761-40-0	350	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
project manager
M.Sc. Pharmaceutical and Chemical Engineering
phone +49(0)30/255 66 00-72
e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0233
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0233

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120500 17. Holmens Väska

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0233

sample identification: A177-2016-10120500

17. Holmens Väcka

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		320	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	600	mg/kg	20
dibutyl phthalate	84-74-2	1300	mg/kg	20
butyl benzyl phthalate	85-68-7	1300	mg/kg	20
DEHP	117-81-7	140000	mg/kg	50
diisononyl phthalate	68515-48-0	190	mg/kg	100
diisodecyl phthalate	26761-40-0	150	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0234

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0234

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120501 18. Cyklop

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0234

sample identification: A177-2016-10120501

18. Cyklop

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	34	mg/kg	20
dibutyl phthalate	84-74-2	54	mg/kg	20
butyl benzyl phthalate	85-68-7	53	mg/kg	20
DEHP	117-81-7	250	mg/kg	50
diisononyl phthalate	68515-48-0	120	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0235
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0235

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120502 19. Indiandocka

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0235

sample identification: A177-2016-10120502

19. Indiandocka

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	220	mg/kg	20
dibutyl phthalate	84-74-2	240	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	270	mg/kg	50
diisononyl phthalate	68515-48-0	220000	mg/kg	100
diisodecyl phthalate	26761-40-0	64000	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
project manager
M.Sc. Pharmaceutical and Chemical Engineering
phone +49(0)30/255 66 00-72
e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0236
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0236

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120503 20. Holmens Docka

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0236

sample identification: A177-2016-10120503

20. Holmens Docka

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	1200	mg/kg	20
dibutyl phthalate	84-74-2	1100	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	150000	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0237
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0237

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120504 21. Elefant

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0237

sample identification: A177-2016-10120504

21. Elefant

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	52	mg/kg	20
dibutyl phthalate	84-74-2	26	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	170	mg/kg	50
diisononyl phthalate	68515-48-0	400000	mg/kg	100
diisodecyl phthalate	26761-40-0	60000	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0238
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0238

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120505 22. Tuvegårdens Docka

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0238

sample identification: A177-2016-10120505

22. Tuvegårdens Docka

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		220	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	250	mg/kg	20
dibutyl phthalate	84-74-2	590	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	180000	mg/kg	50
diisononyl phthalate	68515-48-0	170	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
project manager
M.Sc. Pharmaceutical and Chemical Engineering
phone +49(0)30/255 66 00-72
e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0239

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0239

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120506 23. Flodhäst

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0239

sample identification: A177-2016-10120506

23. Flodhäst

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	59	mg/kg	20
dibutyl phthalate	84-74-2	38	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	260	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering

phone +49(0)30/255 66 00-72

e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0240

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0240

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120507 24. Form

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0240

sample identification: A177-2016-10120507

24. Form

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	39	mg/kg	20
dibutyl phthalate	84-74-2	20	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	<50	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



M.Sc. Pharmaceutical and Chemical Engineering
 Stefan Kutschau
 project manager
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany

Eurofins Enviroment Testing Schweden AB

Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0241

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0241

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120508 25. Bitleksak

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0241

sample identification: A177-2016-10120508

25. Bitleksak

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	<20	mg/kg	20
dibutyl phthalate	84-74-2	<20	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	<50	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.


Stefan Kutschau
 project manager
M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany

Eurofins Enviroment Testing Schweden AB

Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0242

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0242

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120509 26. Häst sagobjörnen

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0242

sample identification: A177-2016-10120509

26. Häst sagbjörnen

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	66	mg/kg	20
dibutyl phthalate	84-74-2	31	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	150000	mg/kg	50
diisononyl phthalate	68515-48-0	28000	mg/kg	100
diisodecyl phthalate	26761-40-0	9000	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
M.Sc. Pharmaceutical and Chemical Engineering

phone +49(0)30/255 66 00-72

e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0243
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0243

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120510 27. Krokodil

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0243

sample identification: A177-2016-10120510

27. Krokodil

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	30	mg/kg	20
dibutyl phthalate	84-74-2	49	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	120	mg/kg	50
diisononyl phthalate	68515-48-0	360	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
project manager
M.Sc. Pharmaceutical and Chemical Engineering
phone +49(0)30/255 66 00-72
e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0244
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0244

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120511 28. Nalle Puh

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0244

sample identification: A177-2016-10120511

28. Nalle Puh

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	40	mg/kg	20
dibutyl phthalate	84-74-2	72	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	84	mg/kg	50
diisononyl phthalate	68515-48-0	330000	mg/kg	100
diisodecyl phthalate	26761-40-0	6500	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0245
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0245

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120512 29. Ödla

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0245

sample identification: A177-2016-10120512

29. Ödla

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		200	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	<20	mg/kg	20
dibutyl phthalate	84-74-2	<20	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	<50	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering

phone +49(0)30/255 66 00-72

e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0246

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0246

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120513 30. Boll

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0246

sample identification: A177-2016-10120513

30. Boll

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	<20	mg/kg	20
dibutyl phthalate	84-74-2	<20	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	<50	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
 project manager
 M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany

Eurofins Enviroment Testing Schweden AB

Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:

our sign: 16-E018-0247

phone: see project manager below test result

telefax: +49(0)30/2556600-1

e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0247

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120514 31. Fluga

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0247

sample identification: A177-2016-10120514

31. Fluga

parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	<20	mg/kg	20
dibutyl phthalate	84-74-2	<20	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	<50	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



M.Sc. Pharmaceutical and Chemical Engineering
 phone +49(0)30/255 66 00-72
 e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

PiCA GmbH, Rudower Chaussee 29, 12489 Berlin, Germany
Eurofins Enviroment Testing Schweden AB
Mrs. Monica Manitski
Box 737
53117 Lidköping
Schweden

your sign:
our sign: 16-E018-0248
phone: see project manager below test result
telefax: +49(0)30/2556600-1
e-Mail: see project manager below test result

Berlin, 08.11.2016

Test Report 16-E018-0248

name and address of client:	see address
product type:	material
delivery condition:	
date of receipt:	13.10.2016
testing (start/end):	13.10.2016/08.11.2016
sample taken by:	taken by client
sample identification:	A177-2016-10120515 32. Tänder

The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Test Report: total chlorinated paraffins

test method: LA-GC-002.01

test result
Test Report 16-E018-0248

sample identification: A177-2016-10120515

32. Tänder

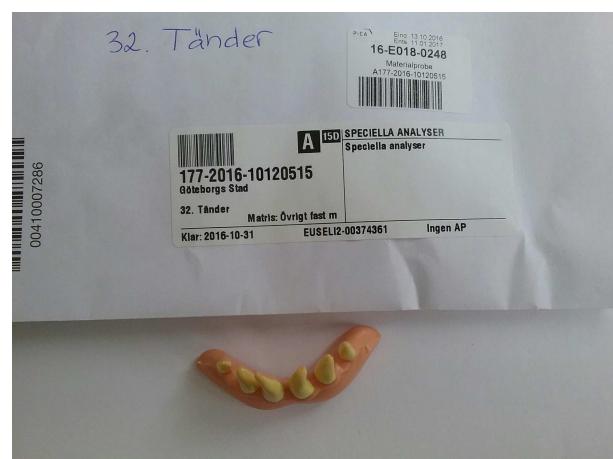
parameter	CAS-No.	amount	results in	LOQ
chlorinated paraffins (C10-C13)		<100	mg/kg	100
plasticizers				
diisobutyl phthalate	84-69-5	24	mg/kg	20
dibutyl phthalate	84-74-2	<20	mg/kg	20
butyl benzyl phthalate	85-68-7	<20	mg/kg	20
DEHP	117-81-7	<50	mg/kg	50
diisononyl phthalate	68515-48-0	<100	mg/kg	100
diisodecyl phthalate	26761-40-0	<100	mg/kg	100
di-n-octyl phthalate	117-84-0	<20	mg/kg	20
bis(2-propylheptyl) phthalate	53306-54-0	<50	mg/kg	50
bis(2-methoxyethyl) phthalate	117-82-8	<20	mg/kg	20
DHNUP	68515-42-4	<200	mg/kg	200
Di-n-hexyl phthalate	84-75-3	<20	mg/kg	20
diisoheptyl phthalate	71888-89-6	<100	mg/kg	100
di-n-pentyl phthalate	131-18-0	<20	mg/kg	20
diisopentyl phthalate	605-50-5	<20	mg/kg	20
n-pentylisopentyl phthalate	776297-69-9	<20	mg/kg	20
diisohexyl phthalate	71850-09-4	<100	mg/kg	100

LOQ: Limit of quantification

The amount in [] is a semiquantitative valuation of concentrations between the limit of detection and the limit of quantification.



Stefan Kutschau
project manager
M.Sc. Pharmaceutical and Chemical Engineering
phone +49(0)30/255 66 00-72
e-mail stefan.kutschau@pica-berlin.de



The test results relate only to the items tested. The test report shall not be reproduced except in full without the written approval of the testing laboratory.

Publikationer utgivna av Göteborgs miljöförvaltning

Rapporter (ISSN 1401-2448):

- R 2016:1 Årsrapport 2015
R 2016:2 Våga fråga - kunna svara. Åtgärd 97 Göteborgs Stads miljöprogram 2013
R 2016:3 Kemikalier i byggvaror. - Tillsynsprojekt i samarbete mellan Malmö, Göteborg, Helsingborg och Stockholm
R 2016:4 Strandkvanefjärilar Göteborgs Stad 2015
R 2016:5 Luftkvaliteten i Göteborgsområdet. Årsrapport 2015
R 2016:6 Metaller i vattendrag – undersökningar av biotillgängliga metaller i vattendrag i Göteborg 2015
R 2016:7 Bottensauna – undersökningar av djurlivet i några sötvattensmiljöer i Göteborg 2015
R 2016:8 Kemikalier i varor av läder och konstläder - Tillsynsprojekt i samarbete mellan Malmö, Göteborg, Helsingborg och Stockholm
R 2016:9 Arter och naturtyper i Göteborg – ansvarsarter och ansvarsbiotoper
R 2016:10 Poolkemikalier och badleksaker - Tillsynsprojekt i samarbete mellan Malmö, Göteborg, Helsingborg och Stockholm
R 2016:11 Följer Göteborgs Stad förbudet om ftalater i varor?
R 2016:12 Källor till mikroplast i Göteborg - kunskapsläge och förslag till åtgärder 2016
R 2016:13 Transplantering av lunglav *Lobaria pulmonaria* i sex skogsbestånd i Göteborg 1994 – 2016
R 2016:14 Analyser av leksaker från second hand-butiker

- R 2015:1 Årsrapport 2014
R 2015:2 Metaller i vattendrag - undersökningar av biotillgängliga metaller i vattendrag i Göteborg 2014
R 2015:3 Bottensauna - undersökningar av djurlivet i några sötvattensmiljöer i Göteborg 2014
R 2015:4 Inventering av tennorganiska föreningar och dess effekter i småbåtshamnar 2014
R 2015:5 Detaljhandelns kunskaper om kemikalier i varor- fokus vardagsrummet.
Tillsynsprojekt i samarbete mellan Malmö, Göteborg, Helsingborg och Stockholm
R 2015:6 Luftkvaliteten i Göteborgsområdet. Årsrapport 2014
R 2015:7 Fältinventering av ålgräs i Göteborg 2014
R 2015:8 Översiktlig inventering av ålgräsängar i Göteborgs kommun
R 2015:9 Ekologisk landskapsanalys - artanalyser och metodutveckling
R 2015:10 Märkning av biocidbehandlade varor. Tillsynsprojekt i samarbete mellan Malmö, Göteborg, Helsingborg och Stockholm
R 2015:11 Kemikalier i varor som kommer i kontakt med livsmedel.
Tillsynsprojekt i samarbete mellan Malmö, Göteborg, Helsingborg och Stockholm
R 2015:12 Kreativt återvinningscenter i Göteborg. Utredning enligt miljöprogramsåtgärd 209

- R 2014:1 Årsrapport 2013
R 2014:2 Inventering av alger på grunda hårbottnar i Göteborgs skärgård
R 2014:3 Inventering av grunda mjukbottnar i Göteborg 2013
R 2014:4 Varor i lågprissegmentet - tillsyn över detaljhandeln. Tillsynsprojekt i samarbete mellan Malmö, Göteborg och Stockholm
R 2014:5 Budget 2014
R 2014:6 Bottensauna i Göteborgs kommun 2013
R 2014:7 Metaller i vattendrag 2013
R 2014:8 Metaller i vallgravsfisk 2013
R 2014:9 PVC-produkter - tillsyn över detaljhandeln. Tillsynsprojekt i samarbete mellan Malmö, Göteborg, Helsingborg och Stockholm
R 2014:10 Luftkvaliteten i Göteborgsområdet. Årsrapport 2013
R 2014:11 Pedagogiska odlingsträdgårdar. Slutrapport
R 2014:12 Kemikalier i arbets- och profilkläder - tillsyn över detaljhandeln.

Miljöförvaltningen

Box 7012, 402 31 Göteborg

Tel vx: 031-365 00 00

E-post: miljoforvaltningen@miljo.goteborg.se



**Göteborgs
Stad**