

"NO PHENOLS ADDED" THERMAL PAPER CERTIFCATION



Supply chain substitution workshop on alternatives to bisphenol A in thermal paper

INERIS Certification contact:

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The French competence center for industrial safety and environmental protection

Public establishment of an industrial and commercial nature under the tutelage of the French Ministry of the Environment

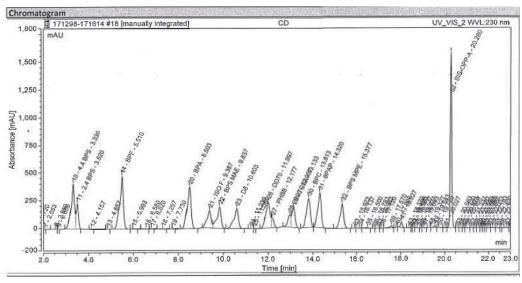


Our mission is to contribute to the evaluation and prevention of the risks that economic activities induce for the environment, health and safety of people and goods.

Story of the "BPA free" and "No phenols added certification"

INERIS developed the certification "BPA Free" and "No phenols added" in 2017 in response to the French National Strategic Plan against Endocrine Disruptor.

These certifications guarantee that there is no Bisphenol A and other fifteen phenolic compounds in thermal papers



Nom ou formule	Nom commercial	CAS	Formule chimique
2,2-Bis(4-hydroxyphenyl)propane	BPA	80-05-7	H _O C CH ₀
Bis(4-hydroxyphenyl)sulfone	4,4'-Bisphenol S ou Bisphenol S ou BPS	80-09-1	HO O OH
4,4'-di(hydroxydiphenyl)methane	Bisphénol F ou BPF	620-92-8	но
BIS(2-HYDROXYPHENYL)METHANE	ISO F	246702-9	OH OH
2,4'-Dihydroxydiphenyl sulfone	2,4'-Bisphenol S	5397-34-2	но
2,2-bis(2-hydroxy-5- biphenylyl)propane	BisOPP-A	24038-68-4	HO————————————————————————————————————
bis-(3-allyl-4-hydroxyphenyl) sulfone (TGSA)(2,2')-diallyl-4,44- sulfonyldiphénol)	TGSA	4148 1 -66-7	но он
1,7-bis(4-Hydroxyphenylthio)-3,5- dioxaheptane	DD 70	93589-69-6	0 ON 2 ON
4-Hydroxy-4'- isopropoxydiphenylsulfone (D8)	D8	95235-30-6	сно-Сно-Сон
4,4'-(α-Methylbenzylidene)diphenol	Bisphénol AP ou BPAP ou BAISTER ou P-1	1571-75-1	110———————————————————————————————————
4,4'-(1-methylethylidene)bis(2- methylphenol)	Bisphénol C ou BPC	79-97-0	H_3C CH_3 CH_5 CH_5
Benzyl 4-hydroxybenzoate; Benzylparaben (BzP)	РНВВ	94-18-8	HO
4-[[4-(2-propen-1- yloxy)phenyl]sulfonyl]phenol	BPS-MAE	97042-18-7	
4-[(4- Benzyloxyphenyl)sulfonyl]phenol	BPS-MPE	63134-33-8	
4-[4'-[(1'- methylethyloxy)phenyl]sulfonyl]phen ol	D90	191680-83-8	но Сэоз-Сосоо-о-о-о-о-о-о-о-о-о-

Présentation INERIS - 04/04/2019

Certification Rules

MANUFACTURER

Certification of manufacturers of thermal papers



Manufacturer's AUDIT



THERMAL PAPER
SAMPLES ANALYSIS
according INERIS
measurement protocol

CERTIFICATE OF CONFORMITY is awarded for 2 years



MONITORING ANALYSIS of thermal papers samples - ONCE A YEAR during the period of validity of the certificate

TRANSFORMER

Thermal papers must be provided from certified manufacturers



Transformer's AUDIT



CERTIFICATE OF CONFORMITY and an IDENTIFICATION NUMBER are awarded for 2 years



©

AUDIT MONITORING - ONCE A YEAR during the period of validity of the certificate

USER

Thermal papers must be provided from certified transformers



Verification of the USE OF THE BRAND

BRAND USE CERTIFICATE valid for 2 years





MARKET SURVEILLANCE RANDOMLY during the year during the period of validity of the certificate

Do you have any questions?

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Daily handling of thermal paper containing BPA presents a risk for users¹. To protect users' health, INERIS has developed voluntary certification of BPA-free products.

Bisphenol A, an endocrine disruptor

BPA, used as a monomer in polycarbonate-type plastic manufacturing and epoxy resin, is present in different everyday objects such as kitchen utensils, CDs and DVDs, glasses, toys, food containers...

It is also part of the composition of thermal papers, used primarily as cash register and credit card receipts.

BPA is an endocrine disruptor that can alter the functions of hormonal systems and be harmful to the health of living organisms.

Creation of INERIS's "BPA FREE" label



Ineris has developed a "BPA FREE" label available to professionals.

This voluntary label, issued by Ineris, guarantees that cash register and credit card receipts do not contain the three phenolic compounds bisphenol A, S and F. It can be issued to producers of thermal papers as well as their users, such as supermarket chains.

Extension of the "BPA FREE" label to the "NO PHENOL Added" label

Ineris has created a second, broader label guaranteeing the absence in thermal papers of all phenots and bisphenols (including bisphenol A, bisphenol S and bisphenol F) known to be used in these papers as thermal developers, which includes fifteen phenolic compounds.



- Migration of bisphenol A from cash register receipts and baby dummies Carsten Lassen, Sonja Hagen Mildelsen and Ulla Kristine Brandt COWI A/S
- 2 https://echa.europa.eu/fr/-/msc-unanimously-agrees-that-bisphenol-a-is-an-endocrine-disruptor

Companies certified in 2017







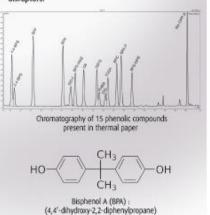






Since December 2016, BPA has been identified by the EU Member States Committee as a substance of very high concern due to its reprotoxic properties and since 2017 for its endocrine disrupting properties causing probable serious effects to human health and the environment?

For the last several years, Ineris has been performing research and offering technical support to the Ministry of Ecology on the risks related to endocrine disruptors.



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