

ROTTERDAM CONVENTION

SECRETARIAT FOR THE ROTTERDAM CONVENTION ON THE PRIOR INFORMED CONSENT PROCEDURE FOR CERTAIN HAZARDOUS CHEMICALS AND PESTICIDES IN INTERNATIONAL TRADE







FORM FOR NOTIFICATION

OF FINAL REGULATORY ACTION TO BAN OR SEVERELY RESTRICT
A CHEMICAL

Country:

P.R.China

SECTION 1 IDENTITY OF CHEMICAL SUBJECT TO THE FINAL REGULATORY ACTION

1.1 Hexabromocyclododecane Common name 1,2,5,6,9,10-hexabromocyclododecane and its main diastereoisomers 1.2 Chemical name according to Hexabromocyclododecane an internationally recognized nomenclature (e.g. IUPAC), where such nomenclature exists Cyclododecanc, hexabromo; HBCD; Bromkal 73-6CD; 1.3 Trade names and names of Nikkafainon CG 1; Pyroguard F 800; preparations Pyroguard SR 103; Pyroguard SR 103A; Pyrovatex 3887; Great Lakes CD-75PTM; GreatLakes CD-75; Great Lakes CD75XF; Great Lakes CD75PC (compacted); Dead Sea BromineGroup Ground FR 1206 1-LM; Dead Sea Bromine Group Standard FR

I-CM.

1.4 Code numbers

1.4.1 CAS number

25637-99-4 (hexabromocyclododecane)

3194-55-6 (1,2,5,6,9,10-hexabromocyclododecane)

1206 I-LM; Dead ScaBromine Group Compacted FR 1206

134237-50-6 (α-hexabromocyclododecane)

134237-51-7 (β-hexabromocyclododecane)

134237-52-8 (γ-hexabromocyclododecane)

1.4.2 Harmonized System customs code

2903890020

1.4.3	Other numbers (specify the numbering system)	

1.5	Indication regarding previous notification on this chemical, if any
1.5.1	This is a first time notification of final regulatory action on this chemical.
1.5.2	This notification replaces all previously submitted notifications on this chemical. Date of issue of the previous notification:
SECTI	ON 2 FINAL REGULATORY ACTION
2.1	The chemical is: banned OR severely restricted
2.2	Information specific to the final regulatory action
2.2.1	Summary of the final regulatory action
	Since December 26 th , 2016, the production, use, import and export of hexabromocyclododecane have all been banned in China except for the specific exemption.
2.2.2	Reference to the regulatory document, e.g. where decision is recorded or published
	According to Announcement No.[2016]84 by MEP and 10 other ministries: Announcement on "Stockholm Convention on Persistent Organic Pollutants (POPs): entry into force of the amendment to Annexes A to list hexabromocyclododecane".
2.2.3	Date of entry into force of the final regulatory action
	December 26th, 2016
2.3	Category or categories where the final regulatory action has been taken
2.3.1	All use or uses of the chemical in your country prior to the final regulatory action
	used mainly as flame retardant
2.3.2	Final regulatory action has been taken for the category

	The production, use, import and export of hexabromocyclododecane have all been
	banned in China except for the followings: 1. The production, use, import and export of hexabromocyclododecane used for
	expanded polystyrene and extruded polystyrene in buildings (used mainly as
	flame retardant) will be allowed within the validity of specific exemption. The
	validity of the specific exemption will be terminated in 5 years after the
	amendment taking into effect in China (on December 25, 2021).
	2. The production, use, import and export of hexabromocyclododecane used for laboratory-scale research or as a reference standard will be allowed.
	Use or uses that remain allowed (only in case of a severe restriction)
	1. Expanded polystyrene and extruded polystyrene in buildings (used mainly as
	flame retardant)
	2. Used for laboratory-scale research or as a reference standard
2.3.3	Final regulatory action has been taken for the category Pesticide
	Formulation(s) and use or uses prohibited by the final regulatory action
	Tormulation(s) and use of uses prombited by the final regulatory action
	Formulation(s) and use or uses that remain allowed (only in case of a severe
	restriction)
101 (1	
	ne final regulatory action based on a riskYes ard evaluation?
OI IIaz	No (If no, you may also
	complete section 2,5.3.3)
	reference to the relevant documentation, which describes the hazard or risk
evalua	tion
Summa	ary description of the risk or hazard evaluation upon which the ban or
severe	restriction was based.
Is the	reason for the final regulatory action relevant to human Yes
health?	?
	No

	health of consumers and workers	uman neam,
Expected eff	ect of the final regulatory action	
Is the reas	on for the final regulatory action relevant to the	Yes
If yes, give s	summary of the hazard or risk evaluation related to the e	
Expected eff	ect of the final regulatory action	
	ant information regarding the final regulatory action	d used
Lottinated qt	Quantity per year (MT)	Year
produced		
imported		
exported		
used		
	o the extent possible, of the likely relevance of the fir er states and regions	nal regulatory
Other releva	nt information that may cover:	
Assessment	of socio-economic effects of the final regulatory action	
	on alternatives and their relative risks, e.g. IPM, o	chemical and
Basis for the	final regulatory action if other than hazard or risk evalu	ation
On July 2, 2 of the Natio enlisting here. Persistent O	016, the 21 st meeting of the 12 th Session of the Standin nal People's Congress reviewed and approved the a kabromocyclododecane to Annex A of Stockholm Conganic Pollutants (POPs), and the amendment has ententled	ng Committee mendment of onvention on

C1	TION 3	PROPERTIES	
	Information on haza classification requirer		the chemical is subject to
	International classystems e.g. WHO, IARC, etc.	assification Hazard c	lass
	Other classification sy	ystems Hazard c	lass
	_		
	EU		toxicity (Category 1) tic toxicity (Category 1)
1	Further information or		tic toxicity (Category 1)

Property	Value	Reference
Chemical formula	C12H18Br6	
Molecular weight	Molecular weight 641.7	
641.7		
Physical state	Physical state White odour less solid	
White odourless solid		
Melting point	Ranges from approximately:	Smith et al. (2005)
	172-184 °C to 201-205 °C	

	190 °C, as an average value, was used as input data in the EU risk assessment model EUSES. 179-181 °C α-HBCD 170-172 °C β-HBCD 207-209 °C γ-HBCD	
Boiling point	Decomposes at >190 °C (see also text below)	Peled et al. (1995)
Density	2.38 g/cm3 2.24 g/cm3	Albemarle Corporation (1994) Great Lakes Chemical Corporation (1994)
Vapour pressure	6.3·10-5 Pa (21 °C)	Stenzel and Nixon (1997)
Partition coefficient noctanol/ water	Log Kow = 5.62 (technical product) $5.07 \pm 0.09 \alpha$ -HBCD 5.12 ± 0.09 , β -HBCD $5.47 \pm 0.10 \gamma$ -HBCD	MacGregor and Nixon (1997) Hayward et al. (2006)
Henry's Law constant	0.75 Pa×m3/mol Calculated from the vapour pressure and the watersolubility (66μg/l)	
Flash point	Not applicable	
Auto flammability	Decomposes at >190 °C	
Flammability	Not applicable-flame retardant	
Explosive properties	Not applicable	
Oxidizing properties	Not applicable	
Conversion factor	1 ppm = 26.6 mg/m3 1 mg/m3 = 0.037 ppm	

Reference

Report of the Persistent Organic Pollutants Review Committee on the work of its sixth meeting Addendum Risk profile on hexabramocycladadecane

3.2.2 Description of toxicological properties of the chemical

LD50 Oral - rat - > 20,000 mg/kg

Reference

Guidechem Chemical Network, Chemical Manufacturers Distinuity

3.2.3 Description of ecotoxicological properties of the chemisal

Toxicity to fish: LC50 - Oncorhynchus mykiss (rambow tout) - 0 993 mail - 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia andother aquaticinvertebrates : ECSO - Daphnia - > 3.2 mg/l - 46%

Toxicity to algae: EC50 - Algae - 0,009 mg/i - 72 h

Reference

Guidechem Chemical Nelwork, Chemical Manufacturers Dictionary

SECTION 4

DESIGNATED NATIONAL AUTHORITY

Institution

Address

Name of person in charge

Position of person in charge

Telephone

Telefax

E-mail address

Solid Waste and Chemicals Management Center

Ministry of Environmental Protection/Department of Soil

Environmental Management

No. 1, Yuhumanlu, Chaoyang District, 100029 Beijing Gime

Ding Qiong

Chief Engineer

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Dingqiong@mepscc.cn

Date, signature of DNA and official seal:

March. 23rd. 2017.

(C/16)

PLEASE RETURN THE COMPLETED FORM TO:

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Definitions for the purposes of the Rotterdam Convention according to Article 2:

OR

- (a) 'Chemical' means a substance whether by itself or in a mixture or preparation and whether manufactured or obtained from nature, but does not include any living organism. It consists of the following categories; pesticide (including severely hazardous pesticide formulations) and industrial;
- (b) 'Banned chemical' means a chemical all uses of which within one or more categories have been prohibited by final regulatory action, in order to protect human health or the environment. It includes a chemical that has been refused approval for first-time use or has been withdrawn by industry either from the domestic market or from further consideration in the domestic approval process and where there is clear evidence that such action has been taken in order to protect human health or the environment;
- (c) 'Severely restricted chemical' means a chemical virtually all use of which within one or more categories has been prohibited by final regulatory action in order to protect human health or the environment, but for which certain specific uses remain allowed. It includes a chemical that has, for virtually all use, been refused for approval or been withdrawn by industry either from the domestic market or from further consideration in the domestic approval process, and where there is clear evidence that such action has been taken in order to protect human health or the environment;
- (d) 'Final regulatory action' means an action taken by a Party, that does not require subsequent regulatory action by that Party, the purpose of which is to ban or severely restrict a chemical.