	/	/	/	/
	√	/	√	/
	/	/	/	/

	/				
			Hg Pb Cd As Cr	Hg Pb Cd As Cr	
				/	

HJ964-2018 0.2km

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HCl

HF SO_2 NOx

Hg Pb Cd As Cr

2001

1

T11 Hg Pb Cd As Cr

$$\Delta S = n\ (Is - Ls - Rs)\ /\ (\rho b \times A \times D)$$

S— g/kg

Is— g

Ls— g

Rs— g

ρb— kg/m^3 1800kg/m^3

A— m^2 0.2km

392230m^2

D— 0.2m

n— a 10 20 30

Is

1μm

$$Is=C\times V\times T\times A$$

:Is— mg/a

C— mg/m^3

V— m/s

1μm 0.1cm/s(0.001m/s)

T— s 300d 25920000s

A— 392230m^2

n

$$S=S_b+\ S$$

:S_b— g/kg

S— g/kg

	mg/m^3	Is mg/a	S g/kg·a
Pb	0.00979	99531029.66	0.70488
Cd	0.00098	9963269.57	0.07056
As	0.00098	9963269.57	0.07056
Hg	0.00023	2338318.37	0.01656
Cr	0.00098	9963269.57	0.07056
	0	0	0

GB36600-2018

	mg/kg	10 mg/kg	20 mg/kg	30 mg/kg	mg/kg
Pb	25.1	7.0488			



( ) (GB36600-2018)

30 50

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(1) (Q)

( )

(HJ169-2018) B

			Qn	CAS	Q_n/t	q_n/t	Q		
	HW02	(T)	HJ169-2018 B B.1 CODcr 210000mg/L	/	10	40	4		
	HW03	(T)	HJ169-2018 B B.1 B.2	/	/	30	0		
	HW04	(T)	H/T169-2018 B B.2 (1)	/	5	30	6		
	HW05	(T)	(LD_{50}:146mg/kg( )) HJ169-2018 B B.2 (3)	/	50	30	0.6		
	HW06	(I) (T) (R)	HJ169-2018 B B.1 CODcr ≥10000mg/L	/	10	200	20		
	HW08	(I) (T)	H/T169-2018 B B.1 CODcr >10000mg/L	/	10	250	25		
	HW09 / /	(T)	H/TI169-2018 B B.1 CODcr >10000mg/L	/	10	199.085	19.91		
	HW11 ( )	(T) (R)	(LD_{50}:250mg/kg( )) H/T169-2018 B B.2 (3)	/	50	210	4.2		
	HW12	(I) (T)	HJ169-2018 B B.1 B.2	/	/	200	0		

1.5

Qn

			Qn	CAS	Q_n/t	q_n/t	Q		
	HW37	(T)	HJ169-2018 B B.2 (2)	/	50	200	4		
	HW38	(T) (R)	(LD_{50}:27mg/kg( )) HJ169-2018 B B.2 (2)	/	50	90	1.8		
	HW39	(T)	H/T169-2018 B B.2 (2)	/	50	90	1.8		
	HW40	(T)	HJ169-2018 B B.2 (2)	/	50	100	2		
	HW45	(T)	HJ169-2018 B B.2 (2)	/	50	90	1.8		
	HW49	(I) (T) (C) (R)	H/T169-2018 B B.2 (3)	/	50	200	4		
	HW50	(T)	HJ169-2018 B B.2 (2)	/	50	120	2.4		
			/	1310-73-2	/	100	0		
			HJ169-2018 B B.1	7664-93-9	10	0.05	0.005		
			HJ169-2018 B B.1	7681-52-9	5	0.1	0.02		

Qn

CAS

Q_n/t q_n/t Q

$Q=q_1/Q_1+q_2/Q_2+\ldots q_n/Q_n=874.3507$ 100

2 (M)

(HJ169-2018) M (1)>20

(2)10<Ms20 (3)5<M<10 (4)M=S M1 M2 M3 M4

(N7724)

(HJ169-2018) C.1 -

I II III IV/IV^{+}

6.7-6

HW02

HW03

HW04

HW05

HW06

HW08

2

sodium hydroxide

NaOH

40.01

CAS 1310-73-2

82001

UN 1824

8.2

≥99.5% ≥99.0%

MAC(mg/m^3) 2
TVL-C 2

:

(=1)	0.84-0.9	(=1)	
( )	-18	(°C)	282-338
(Kpa)		(KJ/mol)	
(°C)			
/		(°C)	38
(%)		(%)	
(°C)	257	pH	
	/		
UN			
	Z01		

4

:

(1)

xin" 75 135

304

1

(1)

(2)

(3)

2

(1)

(2)

CO SO_2

NOx

1

:

2

:

(1)

(2)

1

+

( )

2

3

1

(1)

(2)

CO SO_2 NOx

Cu^{2+} Ni^{+} Pb^{2+} SS COD_{Cr}

BOD_5

3

CO SO_2 HF HCl NOx

Hg Cd As Pb

COD SS

4

				$5.00*10^{-6}$/a
				$5.00*10^{-6}$/a
				$5.00*10^{-6}$/a
	/			$5.00*10^{-6}$/a
				$5.00*10^{-6}$/a
	/			$5.00*10^{-6}$/a