



# **Engr. EDWIN ROMEL N. NAVALUNA**

**CHIEF, CHEMICAL MANAGEMENT SECTION  
ENVIRONMENTAL QUALITY MANAGEMENT DIVISION  
ENVIRONMENTAL MANAGEMENT BUREAU – CENTRAL OFFICE**

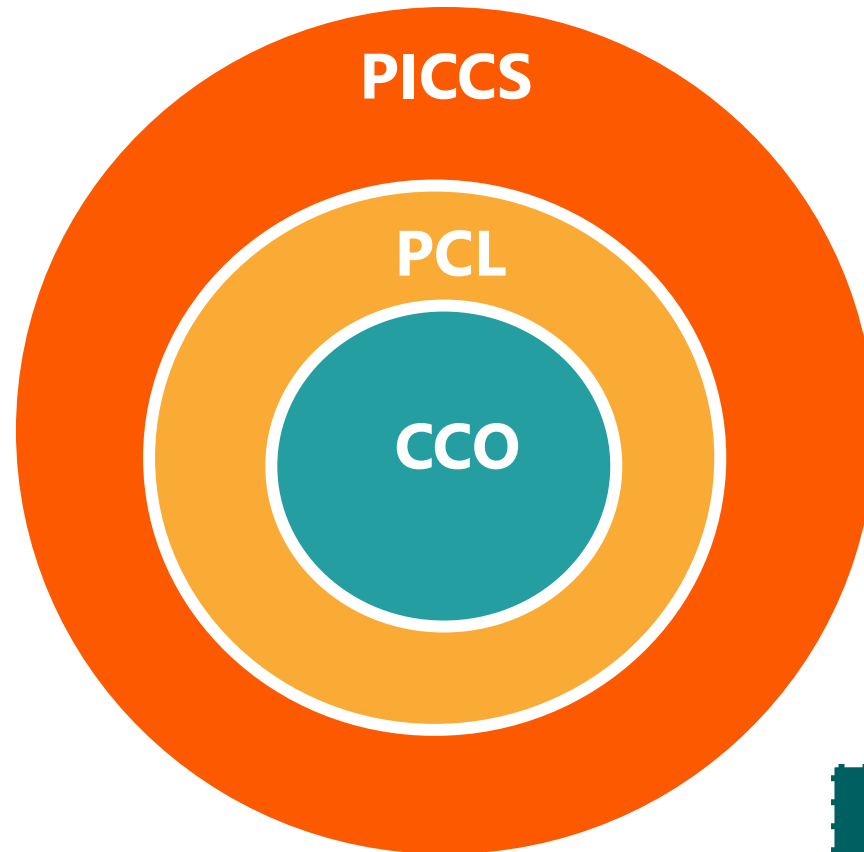
**RA 6969**

(Toxic Substances and Hazardous and  
Nuclear Wastes Control Act)

**Chemical Management**

**Engr. Edwin Romel N. Navaluna**  
Chief, Chemical Management Section

# EMB Regulated **Chemical Classification**



**Philippine Inventory of Chemicals and  
Chemical Substances**

**Priority Chemical List  
48 chemical groups and substances**

**Chemical Control Order**

**Pre-Manufacture Pre-Importation Notification  
Small Quantity Importation (<100kg/year)  
Polymer Exemption**

**New Chemical  
PMPIN / SQI /  
Polymer Exemption**

# Policy Updates

POLICY NO.	POLICY TITLE
<b><u>DAO 2021-08:</u></b>	Chemical Control Order for Cadmium and Cadmium Compounds
<b><u>DAO 2021-09:</u></b>	Chemical Control Order for Chromium VI Compounds
<b><u>DAO 2021-31:</u></b>	Chemical Control Order for Hydrofluorocarbons (HFCs)

POLICY NO.	POLICY TITLE
<b><u>EMB MC 2020-005:</u></b>	Data Requirements For Pre-Manufacture and Pre-Importation Notification (PMPIN) Procedures.
<b><u>EMB MC 2020-007:</u></b>	Additional Chemicals in Philippine Inventory of Chemicals and Chemical Substances (PICCS).
<b><u>EMB MC 2020-009:</u></b>	Guidelines in the Implementation of Globally Harmonized System (GHS) Classification and Labeling Requirements for Chemicals under IMDG and IATA. ( <u>Annex</u> )
<b><u>EMB MC 2020-010:</u></b>	Clarification to DENR Administrative Order 2007-23 on the Scope of Requirements under the Priority Chemicals List (PCL) Compliance Certificate.

# Policy Updates

POLICY NO.	POLICY TITLE
<b><u>EMB MC 2020-012:</u></b>	Rules on the Confiscation of Illegal Chemicals, Chemical Substances and Apprehension of Hazardous Waste under RA 6969.
<b><u>EMB Memorandum 2020:</u></b>	Substances and Compounds that does not dissociate CN ions are not covered by DAO 1997-39 while regulated Cyanide Compounds are listed in the updated Annex A
<b><u>EMB MC 2021-008:</u></b>	Additional Chemicals in Philippine Inventory of Chemicals and Chemical Substances (PICCS)

# Policy Updates

POLICY NO.	POLICY TITLE
<b><u>EMB MC 2021-009:</u></b>	Guidelines in the Implementation of Globally Harmonized System (GHS) Classification and Labeling Requirements for Mixtures.
<b><u>EMB MC 2022-001:</u></b>	Guidelines and Recognition on the Use of Chloride Ion Specific Electrode (CISE) Method as Additional Technology Option in Screening POLYCHLORINATED BIPHENYLS (PCBs) in Oil. ( <u>Annex</u> )
<b><u>EMB MC 2022-004:</u></b>	Delegation Of Authority To The Emb Regional Offices To Issue Certification For The Registration And Importation Clearance Of Lead And Lead Compounds

# PRE-MANUFACTURE AND PRE-IMPORTATION NOTIFICATION (PMPIN) EMB MEMORANDUM CIRCULAR 2020-005

Section 3. General Procedure	Abbreviated Form
	Detailed Form
Section 4. Specific Require- ments	Application Details
	Physicochemical Properties
	Toxicological and Environmental/Ecological Properties
	For Detailed ( it should be accompanied with laboratory test)

After 3 months of non-compliance,  
reapplication is needed.

**Notice of Commencement** is  
submitted **3 weeks after the first  
shipment**



# POLYMER EXEMPTION

## DAO 2019-18 Section 4. Criteria for Polymer Exemption from PMPIN Process

The polymer shall meet any of the following criteria :

1

All of its monomers must be listed in the PICCS.

2

Polymers containing monomers and other reactants (including cross linking, chain transfer agents, and post polymerization reactants) not in the PICCS added at total quantities less than 2 percent (by weight);

3

A new Polymer if two or more of the top (top by weight) monomers are included in the definition of another polymer already in PICCS.

# Polymer Exemption (DAO 2019-18):

## Section 4. Criteria for Polymer Exemption from PMPIN Process

The polymer shall meet any of the following criteria :

4<sup>a</sup>

Polymers that have:

- Number Average Molecular Weight (NAMW) equal to or greater than 10,000 Da,
- Less than 5% of oligomers with MW lower than 1000 Da and less than 2% of oligomers with MW lower than 500 Da, and
- For cationic polymers, the FGEW should be greater than 5000 Da.

4<sup>b</sup>

Polymers that have:

- NAMW equal to or greater than 1000 Da and less than 10,000 Da,
- Less than 25% of oligomers with MW lower than 1000 Da and less than 10% of oligomers with MW lower than 500 Da, and
- No reactive functional groups in excess of the levels of 2% by weight.

# SMALL QUANTITY IMPORTATION (SQI)

For New chemical substances manufactured, imported and distributed in quantities in **less than 1,000 kg. per year**

- Validity of SQI Clearance is valid for **one (1) year**
- **Only** for up to **five applications**. Afterwards, they need to apply under PMPIN. (EMB MC 2016-011)

# PRIORITY CHEMICAL LIST (PCL)

## PCL Compliance

- **48 Chemicals under PCL**
- **Specific Requirements:**
  - Chemical Management Plan
  - Valid Environmental Permits (HWG ID, PTO, DP, ECC)
  - Previous PCL (check if Terms are not violated)
  - Safety Data Sheet (16-sections, GHS compliant)
  - Photo of Storage Area
  - Training attendance related to chemical management / PCO accreditation
  - Latest Quarterly Self-Monitoring Report
  - Payment

\*\*\*Status of Revised PCL List

## PCL Exemption

- **Less than or equal to 1% concentration** (in mixtures) (*EMB Memorandum Circular 2014-003 Supplemental Guidelines For the DENR AO 2007-23*)
- **Solely** as standard solutions or as **reagents for laboratory analysis** (*EMB Memorandum Circular 2017-007*)

# CHEMICAL CONTROL ORDER

## CCO List

1. Asbestos
2. Arsenic
3. PCBs
4. Cyanide
5. Lead
6. Mercury and its compounds
7. Cadmium
8. Chromium VI
9. HFCs and ODS

## CCO HIGHLIGHTS

- Newly added CCO:
  - Cadmium and Cadmium compounds
  - Chromium VI Compounds
- Sodium Cyanide- single shipment
- **Chromium VI** Compounds under CCO while **other chromium** compounds under PCL
- **CCO For Lead** is devolved under EMB regional office
- CCO Under **Philippine Ozone Desk**: HFCs and ODS

# CCO- ODS

## Controlled Substances of the Montreal Protocol

Annex	Group	Substance	No. of Species
Annex A	Group I	Chlorofluorocarbons (CFCs)	5
	Group II	Halons	3
Annex B	Group I	Other fully halogenated CFCs	10
	Group II	Carbon tetrachloride	1
	Group III	1,1,1-trichloroethane (methyl chloroform)	1
Annex C	Group I	Hydrochlorofluorocarbons (HCFCs)	40
	Group II	Hydrobromofluorocarbons (HBFCs)	34
	Group III	Bromochloromethane	1
Annex E	Group I	Methyl bromide	1
Annex F	Groups I & II	Hydrofluorocarbons (HFCs)	18

# CCO- ODS

## DAO – Section 6

### Phase-out Schedule and Control of Importation of ODS (HCFCs)

Date	Import Reduction	Sector affected/Remarks
01 Jan 2013	Recorded baseline shall not be exceeded	
01 Jan 2015	10%	Foam manufacturing (HCFC-141b)
01 Jan 2020	35%	Manufacturing of refrigeration and air-conditioning equipment (HCFC-22)
01 Jan 2025	67.5%	Chillers and fire extinguishing (HCFC-123)
01 Jan 2030	97.5%	All import of HCFC blends prohibited
2030-2039		2.5% per annum allowed for the servicing sector
2040		All importations of HCFCs are prohibited

# CCO- HFCs

## DAO – Section 6

### Phase-down Schedule and Control of Importation of HFCs

Date	Import Reduction	Remarks
01 Jan 2024	Recorded baseline shall not be exceeded in CO <sub>2</sub> equivalent	
01 Jan 2029	10%	baseline consumption in CO <sub>2</sub> equivalent
01 Jan 2035	30%	baseline consumption in CO <sub>2</sub> equivalent
01 Jan 2040	50%	baseline consumption in CO <sub>2</sub> equivalent
01 Jan 2045	80%	baseline consumption in CO <sub>2</sub> equivalent
01 Jan 2045		Importation of the remaining 20% recorded baseline consumption shall be allowed for the servicing sector.

All HFC substances under **Annex F, Groups I and II** of the Montreal Protocol, shall have a **phase-down schedule** based on the following:

Baseline Consumption is the Average production/consumption of HFCs in 2020, 2021 and 2022 Plus 65% of HCFC baseline production/consumption



# Frequently Asked Questions:

## PICCS TOOL / CHEMICAL LOOK UP

PICCS Validation Request

Chemical Management > PICCS Validation

Request Form

Chemicals

⚠ Chemical percentage will not be shown in the piccs document.

CAS No.	Registered Name	Undisclosed?	Generic Name	Percentage	+ Add
No chemicals yet					

Other Information

Would you like to provide a product/mixture name?

No

✓ Validate with PICCS

Chemical Lookup 22277 chemicals

Manage List of Values > Chemicals

Chemicals

Export

Management

Logs

Chemical Name

All

Cas No.

All

Year

All

Restrictions

All

Clear filters

Apply filters

CAS No.	Name	Year Added	Restrictions	
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# Frequently Asked Questions:

## PICCS TOOL / CHEMICAL LOOK UP



Republic of the Philippines  
Department of Environment and Natural Resources  
ENVIRONMENTAL MANAGEMENT BUREAU  
DENR Compound, Visayas Avenue, Diliman, Quezon City, 1116  
Telephone Nos. 927-15-17, 928-20-96  
Email: [emb@emb.gov.ph](mailto:emb@emb.gov.ph)  
Visit us at <http://www.emb.gov.ph>

Reference Number:

### TOOL FOR VALIDATION IN PUBLIC PICCS AND RA 6969 REQUIREMENTS

Product/Mixture Name:

CAS Registry Number	Registered / Generic Name	Remarks
7732-18-5	Water	Listed in Public PICCS and not regulated under Title II of RA 6969. EMB permit or clearance is not required.
11	2-BU	Listed in Public PICCS and not regulated under Title II of RA 6969. EMB permit or clearance is not required.
64	Solvent naphtha	Listed in Public PICCS and not regulated under Title II of RA 6969. EMB permit or clearance is not required.
UNDISCLOSED	Fatty Acids	Listed in Public PICCS and not regulated under Title II of RA 6969. EMB permit or clearance is not required.
95	BENZENE	Listed in Public PICCS and not regulated under Title II of RA 6969. EMB permit or clearance is not required.



For any questions and inquiries:

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