



Republic of the Philippines  
Department of Environment and Natural Resources  
**ENVIRONMENTAL MANAGEMENT BUREAU**

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**MEMORANDUM**

**TO : ALL REGIONAL DIRECTORS**

**FROM : THE OIC-DIRECTOR**

**SUBJECT : 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**

**DATE : 21 OCTOBER 2020**

In accordance with the definition in DENR AO 1997-39 or the Chemical Control Order (CCO) for Cyanide and its Compounds that Cyanide means “any substance containing the cyanide ion, CN<sup>-</sup>, as found in metallic cyanide and hydrogen cyanide”, please be informed that other substances and compounds containing the Cyano group with very low potential of dissociating into Cyanide anion are not covered by the said CCO.

Examples of Cyanide substances and compounds in the Philippine Inventory of Chemicals and Chemical Substances (PICCS) 2018 Database that should be covered by the CCO are listed in, but not limited to, the attached Annex A. The Chemical Management Section (CMS) shall update the PICCS Database to identify and tag those under the CCO.

The other Cyano groups are known to be significantly less toxic than the Cyanide group with low risk in forming into Cyanide ions under normal environmental conditions. Nevertheless, if you have studies or information that would indicate that the Cyano substance or compound has comparable toxicity to Cyanide, please provide such to the CMS for further assessment by the Chemical Review Committee.

Please be guided accordingly.

  
**ENGR. WILLIAM P. CUÑADO**



**ANNEX A – EXAMPLES OF CYANIDE SUBSTANCES AND COMPOUNDS IN  
PICCS 2018 DATABASE COVERED BY CCO**

<b>CAS Registry No.</b>	<b>Chemical Name</b>	<b>Molecular Formula</b>
74-90-8	Hydrogen cyanide Hydrocyanic acid	HCN
143-33-9	Sodium cyanide	NaCN
13601-19-9	Sodium ferricyanide Sodium ferrocyanide Sodium hexacyanoferrate	Na <sub>4</sub> Fe(CN) <sub>6</sub>
151-50-8	Potassium cyanide	KCN
506-61-6	Potassium silver cyanide Potassium dicyanoargentate	KAg(CN) <sub>2</sub>
13746-66-2	Potassium ferricyanide Potassium cyanoferrate Potassium hexacyanoferrate	K <sub>3</sub> Fe(CN) <sub>6</sub>
13943-58-3	Potassium cyanoferrate II Potassium ferrocyanide II Potassium hexacyanoferrate II	C <sub>6</sub> FeN <sub>6</sub> .4K
25869-98-1	Potassium iron hexacyanoferrate	C <sub>6</sub> Fe <sub>2</sub> KN <sub>6</sub>
13967-50-5	Potassium gold cyanide Potassium dicyanoaurate	C <sub>2</sub> AuN <sub>2</sub> .K
592-01-8	Calcium cyanide	Ca(CN) <sub>2</sub>
14038-43-8	Iron ferrocyanide Iron hexacyanoferrate	C <sub>6</sub> FeN <sub>6</sub> .4/3Fe
25869-00-5	Ferric ferrocyanide Ammonium ferric ferrocyanide	C <sub>6</sub> FeN <sub>6</sub> .Fe.H <sub>4</sub> N
460-19-5	Cyanogen Ethanedinitrile	NCCN
506-77-4	Cyanogen chloride	CNCl
75-86-5	Acetone cyanohydrin Propanenitrile, 2-hydroxy-2-methyl	(CH <sub>3</sub> )C(OH)CN
14402-89-2	Disodium nitroferricyanide Sodium nitroferricyanide Sodium nitroprusside Sodium pentacyanonitrosylferrate	Na <sub>2</sub> [Fe(CN) <sub>5</sub> NO]

