

September 30, 2021

Document No.:NT12-V07

Management Standards on Chemical Substances ver. 7.0

1. Objective

This document provides standards for controlling chemical substances contained in products or secondary supplies that are covered by the separately stipulated "Green Procurement Guidelines (for Products and Secondary Supplies)."

2. Scope

- (1) Products and accessories we procure from suppliers for selling purposes (including added secondary supplies)
- (2) Secondary supplies added by outsource contractors to products to be sold by the Ryoyo Group
 - * Management standards of customers of Ryoyo Group or laws and regulations of delivery countries might be applied as a priority by the product (including secondary supplies) property, the usage, and the destination, etc.

3. Chemical substances to be managed

Ryoyo-defined chemical substances are classified into "IEC62474*-related substances and Others".

However, management standards of customers of Ryoyo Group are applied as a priority.

*IEC62474: Material declaration standard for products of and for the electrotechnical industry

(1) IEC62474-related substances

IEC62474-related substances are required to be grasped the content and reported when requested.

IEC62474-related substances are contained in IEC62474 "Declarable Substances".

"Declarable Substances" URL: http://std.iec.ch/iec62474

Management level of each substrate (prohibition, control, threshold level, and so on.) should be complied with applied laws and regulations.

*The chemical substances restricted by "RoHS DIRECTIVE (2011/65/EU+EU 2015/863)" can be used in the usage provided for by the RoHS exemption.

*Secondary supplies added to products by suppliers must comply with the "EUROPEAN PARLIAMENT AND COUNCIL DIRECTIVE 94/62/EC on packaging and packaging waste" (requiring that the total content of lead, cadmium, mercury, and/or hexavalent chromium must be less than 100 ppm).

(2) Other substances

- Any substance except for "IEC62474-related substances"
- Substances contained in laws, regulations or Management standards of customers of Ryoyo Group. They required to be managed in accordance with the following table.

Table 1 List of Other substances

No	Substance	Managed Objects	Criteria	Referenced	
	Group			Laws/Regulations	
	Name				
1	Red	Flame retardant application	Comply with	Customer requirement	
	phosphorus	in the resin	customer		
			requirement		
			(prohibition or		
			control)		
2	EU REACH	Article	Report content	EU	
	regulation		when exceed	REACH regulation	
	SVHC*		1000ppm in		
			articles		

^{*}The latest REACH SVHC List

https://echa.europa.eu/candidate-list-table

4. Contact Information for Inquiries

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5. Establishment and Revision History

Date	Ver.	Revised Contents	Created	Approved
February 1, 2013	ver.1.0	Established.	_	_
		"Management Standards on		
		Environment-affecting Substances"		
		was renewal.		
December 1,2016	ver.2.0	Change of controlled substances and	_	_
		contact information.		
May 1,2018	ver.3.0	Change of contact information.		_
September 11,2018	ver.4.0	Change of link and contact information.	_	_
April 19,2019	ver.5.0	Change of contact information.	_	_
October 13, 2020	ver.6.0	Correction of erroneous description	Shimada	Nakano
		(2011/65/EU => 2011/65/EU + EU		
		2015/863)		
September 30,2021	ver.7.0	Change of contact information.	Shimada	Nakano

 $\label{lem:composition} Documentation is available for download from the following address: \\ Japanese, English and Chinese$

https://www.ryoyo.co.jp/corporate/csr/c-control

$\label{lem:Reference:The example of IEC62474 related substances} \\$

Substance Group Name					
Asbestos					
Azocolourants and azodyes which form certain aromatic amines					
Polychlorinated Biphenyls (PCBs) and specific substitutes					
Polychlorinated Terphenyls (PCTs)					
Dibutyltin (DBT) compounds					
Dioctyltin (DOT) compounds					
Polychlorinated Naphthalenes (PCNs)					
Cadmium/Cadmium compounds					
Lead/Lead Compounds					
Chromium (VI) Compounds					
Mercury/Mercury Compounds					
Specific brominated flame retardants (PBB, PBDE)					
Hexabromocyclododecane (HBCDD)					
Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)					
Chlorinated Flame Retardants (CFR)					
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)					
Fluorinated Greenhouse Gases (PFC, SF6, HFC)					
Ozone Depleting Substances (CFC, Halon, HBFC, HCFC & others)					
Phthalates (BBP, DBP, DEHP, DIDP, DINP, DNOP)					
Perchlorates					
Radioactive substances					
Tri-substituted organostannic compounds					
Aluminosilicate Refractory Ceramic Fibres					
Zirconia Aluminosilicate Refractory Ceramic Fibres					
Perfluorooctane sulfonates (PFOS)					
Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA					
Perfluorononan-1-oic-acid and its sodium and ammonium salts					
Hexahydromethylphthalic anhydride					
Disodium tetraborates , anhydrous					
4-Nonylphenol, branched and linear, ethoxylated					

^{*}The list above is just an example.

Please confirm "Declarable Substances" (http://std.iec.ch/iec62474).