ECO LABEL CRITERIA FOR CONSTRUCTION CHEMICALS

ECO LABEL SRI LANKA
National Cleaner Production Centre, Sri Lanka.
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1. Introduction

1.1 The Certification Scheme for Eco Labelling of Products/Services of the National Cleaner Production Centre, Sri Lanka (NCPCSL) is based on the requirements laid down in the *ISO 14024:2018* Environmental labels and declarations - Type 1 environmental labeling – Principles and procedures

1.2 This document sets out specific managerial and technical criteria for raw material extraction, transportation, manufacturing, dispatch of consuctruction chemical products for sale,etc following the terminologies and aspects related to the concepts of sustainability management, during the processes involved. The aspects related to the sustainability management described in this document can be environmental impacts, energy and water security or socio-economic development, or any combination thereof.

1.3 The certification of Eco Labelling of consuctruction chemical products is implemented on a set programme operated over a specified period as agreed with relevant parties. The NCPCSL functions as the scheme owner of this certification scheme. This document includes environmental criteria, function characteristics, and legal requirements related to Paint, Wall pre Coating/Floor Polish , Roof Waterproof Chemicals, Wood and metal coating and Tile Adhesive.

1.4 This specific product environmental criteria document has been prepared by the Expert Committee on Eco Labelling appointed by the NCPCSL and authorized for adoption by the Governing Council of NCPCSL. The consuctruction chemical products manufacturers who are seeking eco-labeling certification are required to meet the following requirements.

i) The product and processing conditions shall comply with the requirements given in the below NCPCSL guideline;

and

ii) The product and processing shall comply with relevant regulations mentioned in this document and enforced in the country, as applicable;

and

iii) The product should conform to the relevant national, regional, international recognized standards

1.5 This document supplements the below guideline and provides guidance for the certification of consuctruction chemical products for both Assessors, and Producers who are preparing for certification. Each criterion mentioned herein is categorized depending on the significance of its impact on the product environmental criterion or product function characteristic being discussed, e.g. energy, water, material,environment, or socio development, as follows.

i) Mandatory requirements (M) – Related to the legal requirements for product functional characteristics and etc
ii) Critical requirements (C) – Significant to product environmental criteria
iii) Non-critical requirements (NC) – Not so significant to product environmental criteria when compared to critical requirements

1.6 This document should also be read in conjunction with the Rules and Procedures of NCPCSL as applicable to the Eco Labelling Certification scheme.

1.7 This document will be periodically reviewed and updated based on the experience gained and the developments that have taken place in technology and the use of energy, water, material and the environment. The term ‘shall’ is used in this document to indicate those provisions which are mandatory. The term ‘must’ is used to indicate

the guidance which, although not mandatory, is provided by NCPCSL as a recognized means of meeting the requirements of the standard. The term 'should' is used to indicate recommendations for implementation.

1.8 The Client should submit the relevant pieces of evidence for conformity verification for the last calendar year

2. References

In the preparation of this criteria document, the following documents were referred.

2.1 ISO 14020 – Environmental labels and declarations - General principles
2.2 ISO 14024 – Environmental labels and declarations- Type 1 environmental labeling– Principles and procedures
2.3 Guidelines for Providing Product Sustainability Information, UN Environment Programme,2017
2.4 Any other XXXXX

3 Terms and definitions

For the purpose of this document, the terms and definitions given in the referred standards and the following shall apply.

3.1 Conformity: fulfillment of a requirement
Note: Conformance and compliance are synonymously used for conformity but deprecated.
3.2 Verification: confirmation through the provision of objective evidence that specified requirements have been fulfilled.
3.3 Organization: The Applicant organization hereinafter referred to as an organization.

Certification Criteria Requirements	Weighting Factor
4) Phase: Product design for sustainability	
a) The product/s must be designed holistically, considering all the environmental aspects (eg: Resource Efficiency improvement,Minimizing waste/pollution/emmisions,Eliminate toxicity, etc), so as to minimize associated impacts. *Conformity verification* ➢ Strategies adopted at design & Manufacturing Process/Operations to improve enevironmental performance of the product ➢ resource allocation for improving the design of the product & manufacturing of the product ➢ Details of the Stakeholder engagement ➢ Implemented measures and addressing envrionemtal Impacts ➢ R & D plans,test reports,etc	C
5) Raw Materials/Chemical Extraction	
Responsible acquisition of raw materials	
a) Sufficient evidences should be maintained and provided on locally extracted or imports raw materials, to prove that the environmental impacts have been concerned and addressed by the supplier; *Conformity verification*	NC

➢ Certificates of environmental conformance received from the supplier. ➢ Agreements with the supplier ➢ Process and the criteria of material selection/ evlaution	
6) **Raw material Transport to the factory**	
a) Appropriate measures (eg: pre-planning of transportation, avoid un necessary movements, covering of materials during transportation, etc) must be taken to minimize oil/fuel consumption, air emissions and other transportation related environmental impacts during the raw material transportation; *Conformity verification* ➢ The records on oil/fuel consumption for transportation are maintained ➢ Emission test reports of the vehicles ➢ evidence for green practices such as two mode transportation and etc. **Or** b) If the material transportation is carried out by a third party, appropriate measures should be taken to reduce associated environmental impacts with the involvement of the relevant party (Eg: conditions through agreements) *Conformity verification* ➢ Copy of Signed Agreement ➢ Details of the projects implemented and the efforts taken to minimize dust emission/material spillage reduction due to transportation. ➢ Details of the safety precautions taken during transportation, photographic evidences.	C
7) Consutrcution Chemicals Manufacturing Process	
7.1 General Requirement	
a) Effective Environmental management system (EMS) policies, procedures, and environmental management programmes should be implemented by the organization *Conformity verification* ➢ Valid ISO 14001 EMS Certificate ➢ Records on Environmental management Policy, procedures, and environmental management programmes are maintained	NC
b) Documented Environmental Management Roadmap must be developed to address the potential environmental problems of the organization *Conformity verification* Environment management roadmap of the organization	C
7.2 Water resource consumption and conservation	
a) Infrastructure must be maintained to quantify the water usage for industrial processes and other purposes in the organization	C

Conformity verification ➢ *Water supply metering and/or submetering facilities established in the organization* ➢ *Water consumption records are maintained on a daily/monthly basis*	
b) Water distribution system/Plan should be documented *Conformity verification* ➢ *Plumbing Layout of the factory*	NC
c) Company benchmark/baseline for water consumption should be estabished and monitor on a continuous basis Eg: specific water consumption in m^3 / litres (m^3/Kg, m^3/MT) of product manufactured or per employee water consumption *Conformity verification* ➢ Details of annual production, anuual water consumption & Specific water consumption for atleast 2 years ➢ Details of company benchmarks including comparisons with previous two years or national and international benchmarks.	NC
d) Specific water consumption must reduce by a minimum of 5% from the baseline/Base year has to be reported *(Reduction in specific water consumption ≥ 5%* *Reduction in specific water consumption ≥ 10%* *Reduction in specific water consumption ≥ 15%)* *Conformity verification* ➢ Details of annual production , annual water consumption & Specific water consumption for 3 years	NC
e) Water conservation techniques and technologies must be implemented so that water efficiency is maintained *Conformity verification* ➢ *Site inspection regarding the implementation of Water conservation techniques and technologies,* ➢ Details of annual water consumption & Specific water consumption (Reduction in specific water consumption ≥ 2% from the previous year Reduction in specific water consumption ≥ 3% from the previous year Reduction in specific water consumption ≥ 5%) from the previous year	C
f) Atleast 5% of the total annual water consumption should be from the harvested rain water that runoff from roof & non roof areas of the manufacturing facility *Conformity verification* ➢ Factory observations of the operating rain water harvesting system ➢ Quantitative information of the rain water collected monthly/ annually	NC
g) Organizational/product water footprint should be calculated, recorded, and maintained. *Conformity verification* ➢ *The transparent and verifiable calculation method is available*	NC

h) A Method must be indroduced and implemented for contnous monitoring and measuring the progress of the water management programmes and analysing water consumtion/conservation relevant data to make sure that the water-saving efforts have been effective and communicating the progress to the relvant authories (eg: top management) *Conformity verification* ➢ Progress report ➢ Impact/water Assessment Reports ➢ Management review meeting minutes,etc	C
7.3 Energy resource consumption and conservation	
a) Infrastructure must be maintained to quantify the energy (Renewable and Non renewable) usage for industrial processes and other purposes in the organization *Conformity verification* ➢ *Electricity sub-metering facilities established in the organization* ➢ *Electricity/Fuel consumption records are maintained on a daily/monthly basis* ➢ *Metering facilities for measuring renewable energy consumtion/production is established in the organization and records are maintained*	C
b) Company benchmark/baseline for energy consumption should be estabished and monitor on a continuous basis. (eg: specific electrical energy consumption in KWh / litres (KWh / kg, KWh / g, KWh / MT) of product produced and specific thermal energy consumption in MJ/litres,(MJ / kg, MJ / g ,MJ/MT)of product produced) *Conformity verification* ➢ Details of annual/monthly production, energy consumption & specific energy consumption for the preceding atleast 2 years	C
c) Specific electricity consumption should be reduced by a minimum of 5% from the baseline/Base year has to be reported (Reduction in specific electricity consumption ≥ 5% Reduction in specific electricity consumption ≥ 10% Reduction in specific electricity consumption ≥ 15%) *Conformity verification* ➢ Details of annual production, energy consumption & specific energy consumption for atleast 2 years ➢ Details of implementation of energy efficiency improvement measures with actual benefits achieved	NC
d) Specific thermal energy consumption shpuld be reduced by a minimum of 5% from the baseline/base year has to be reported *(Reduction in specific electricity consumption ≥ 5%* *Reduction in specific electricity consumption ≥ 10%* *Reduction in specific electricity consumption ≥ 15%)*	NC

Conformity verification ➢ Details of annual production, energy consumption & specific energy consumption for the preceding 2 years ➢ Details of implementation of energy efficiency improvement measures with actual benefits achieved	
e) The organization should be substituted nonrenewable energy sources (On-site & off site) with renewable energy (Eg: biomass ,solar power,hydro power,etc) *Conformity verification* ➢ Details of installation of onsite and offsite renewable power generating sources including the technology, installed capacity and location with photographs of installations ➢ Details of total power/energy consumption in the manufacturing facility and renewable power produced in kWh, ➢ Solar connection Agreeement,etc	NC
f) Appropriate measures (Eg: Fuel switching, waste heat recovery applications,etc) should be implemented to improve energy efficiency in the organization *Conformity verification* ➢ *Site inspection relevant to the energy efficiency measures implemented* ➢ *Records on energy savings done through such implementation,investment records,etc*	C
g) Effective energy management system (EnMS) or policies, procedures, and energy management programmes should be implemented by the organization *Conformity verification* ➢ *Valid EnMS Certificate* ➢ *Records on Energy management Policy, procedures, and energy management programmes are maintained*	NC
h) Organizational/product carbon footprint (assertion of GHG emissions and removals) should be calculated, recorded, and maintained. *Conformity verification* ➢ *A transparent and verifiable calculation method is available.*	NC
i) A Method should be indroduced and implemented for contnous monitoring and measuring the progress of the energy management programmes and analysing energy relevant data to make sure that the energy-saving efforts have been effective and communicating the progress to the relvant authories (eg: top management) *Conformity verification* ➢ Progress report ➢ Impact/Energy Assessment Reports, Management review meeting minutes,etc	C
7.4 Raw material consumption	
a) Input/Raw materials must be non toxic to eliminate exposure to heavy metals (eg: mercury, lead, cadmium, hexavalent chromium, arsenic & antimony) and release of solvents . *Conformity verification*	C

➢ Records on Raw material consumption ➢ Product Sample test report ➢ Product certificates	
b) Amount of raw materials acquired locally should be 3% or more than that out of the total raw material consumption to produce a unit of product Conformity Verification ➢ Records of total and local raw material content, source/location of material acquired/Purchased	NC
c) Appropriate measures should be taken to eliminate exposure to release of organic solvents . Aromatic hydrocarbons and Halogenated solvents – 0.01 % by weight VOC (not including 1) in water borne coatings 2.0% max *Conformity verification* ➢ Test certificates as per the standards specified complying to the limits in case of contaminations	C
d) VOC for solvent borne – cannot control for Eco labeling..? need to take a final decision	
e) Appropriate measures should be taken to eliminate exposure to Free formaldehyde . Formaldehyde; Free formaldehyde MUST not be intentionally added. Free formaldehyde in product MUST be 0.001% for coating products, 0.01 % for other dispersions *Conformity verification* ➢ Test reports or certificate conforming the absence/level of formaldehyde	C
f) Heavy Metals ; Must not be added intentionally to product; if added as driers 0.10% ; if added as pigments supplier should ensure the metal is bonded to chromophore *Conformity verification* ➢ Test certificates as per the standards specified complying to the limits in case of contaminations	C
g) Raw materials shall be stored in a way that reduces spills, wastage and leaks. (Chemical raw materials are exempted under this criterion) *Conformity verification* ➢ Site inspection	C
Responsible Chemicals Management	
	C

h) Sound chemicals management plan must be developed and implemented to ensure the safe and proper use of hazardous/Non hazardous chemicals, dangerous goods/controlled substances and to comply with applicable governmental regulations Conformity Verification ➢ Chemical Management Plan which includes following as neccessary: Legislation and Licensing, Signage & Placarding, Training & Induction, Personal Hygiene, Chemical Handling, Safety Data Sheets, Risk Assessment of Tasks Involving Chemicals, Labelling, Storage, Transportation of Chemicals, Chemical Waste and Disposal and etc.	
i) Occupational Health and Safety practice guidelines, Emergency Preparedness plan must be developed and implemented as per the following national/international requirment Eg: ISO 45001:2018 Occupational health and safety management systems or equivalent. standard procedure/ practices for chemical storage as per GHS -Globally Harmonized System of classification and labelling of chemicals. Conformity Verification ➢ Copy of emergency response plan ➢ Documentary evidences for applying standards in chemical storage and handling	C
j) Green initiatives (such as chemical leasing, shifting to green chemicals and application of green chemistry,etc) should be adopted and implimented to design and/or produce cost-competitive chemical products and processes by reducing pollution at its source Conformity Verification ➢ Agreements with suppliers ➢ Purchasing orders of Chemicals ➢ Safety Data sheets of Chemicals.	NC
7.5 Product Quality	
a) The product must be fit for its intended purpose and must meet performance requirements of relevant national/International standards ,or prove fitness for purpose with other appropriate documentation (standards/guidelines) (Refer annexure - 1) Conformity Verification ➢ Valid SLS certificate or ➢ Test reports verifying the performance parameters of the product are met.	NC
b) Effective Quality management system (QMS) or policies, procedures, and quality plan/programmes should be implemented by the organization Conformity Verification ➢ *Valid ISO 9001 QMS Certificate* ➢ *Records on Quality Policy, procedures, and quality plan/ programmes are maintained*	C
c) Toxic heavy metals and their compounds, or ingredients containing heavy metals and their compounds, (including lead (Pb), cadmium (Cd), mercury (Hg), chromium (Cr), arsenic (As),	C

selenium (Se), cobalt (Co), tin (Sn) and antimony (Sb), and Nickel) must not be added to products or used during manufacture to reduce the use of hazardous materials and to prevent pollutants entering the environment and to protect human health (Refer annexure - 2) Conformity Verification ➢ Ingredients list for the product and Safety Data Sheet (SDS) for each ingredient, identification of potential contamination sources.	
7.6 Waste water Management	
a) The organization shall be complied with Central Environment Authority (CEA) stipulated regulations before discharging water to the environment. Conformity Verification ➢ Treated waste water test reports.	M
7.7 Solid Waste Management	
a) Effective waste management policies and programmes/Plans must be documented for hazardous and Non Hazourdous solid waste with regard to following; ➢ Quantities and types of waste recovered for reuse internally and externally; ➢ Quantities and types of waste recycled internally and externally; ➢ Quantities and types of waste disposed of to landfill; ➢ Information on disposal locations for all wastes; and ➢ Initiatives taken to reduce waste generation and improve recovery/recycling of waste *Conformity verification* ➢ copy of Waste Management policy and waste management Plan/Programmes ➢ waste management plan should cover following attributes as neccessary *Assigning a responsible person for managing waste on site.,Obtaining legal compliance for,managing waste.,Establish goals and objectives.,Estimate the waste types and amounts involved.,Set targets for reducing the amount of each waste sent to landfill.,Describe recycling/reuse methods for each material.,Identify the waste destinations and transport modes, including what materials are being segregated on site for reuse or recycling.,Track progress.,Describe special measures for material use and handling.,Describe communication and training to support and encourage participation from everyone on site.,If applicable, describe the sequencing and methods for deconstruction projects.,Project review.*	C
b) Scheduled waste management license for the manufacturer for producing hazardous solid waste shall be obtained from Central Environmental Authority and implemented accordingly. Conformity verification ➢ Copy of contract/agreement with CEA certified third party waste collection agencies for safe disposal ➢ Site visit for Hazardous waste stores ➢ record of hazardous waste generation is maintained	M
c) Appropriate waste management practices (such as Collection ,Monitoring and recording waste generation, Reuse, recycling internally or externally ,Provide waste to third party for safe disposal. Consider choosing Central Environment (CEA) registered waste collecting agents) must be implimented for Non hazardous solid waste	C

Conformity verification ➢ Copy of contract/agreement with CEA certified third party waste collection agencies for safe disposal ➢ Site visit for waste stores/yard ➢ records of Non hazardous waste generation is maintained	
7.8 Air Emissions	
a) Emissions to air shall not be exceeded the CEA stipulated limits to make it ensure the factory atmosphere is safe for its occupants. *Conformity verification* ➢ Valid Environemntal Protection License	M
b) Appropriate Initiatives (such as installing scrubbers, implementing a dust management plan and other suitable initiatives) should be taken to reduction of dust and fumes emission. *Conformity verification* ➢ site inspections,Records relevant to the dust management activities/plan	C
7.9 Packaging	
a) Product Packaging should be complied with at least one of the following to reduce the ecological impact of the packaging stage of the product life cycle: ✓ Each material constituting >20% by weight of the total primary and secondary packaging used, must contain at least 30% recycled content by weight; or ✓ Each material constituting >20% by weight of the total primary and secondary packaging used, must be derived from Bio Degredable materials (e.g. PLA plastics); or ✓ Each separable item constituting >20% by weight of the total primary and secondary packaging, must be recyclable in Sri Lanka. or ✓ Paper and cardboard packaging must be either certified under recognised forest certification scheme (e.g. FSC or PEFC) or contain at least 20% recycled content by weight *Conformity verification* ➢ MSDS of packing materials ➢ Records relevant to the packaging material procurement and consumption	NC
b) Manufacturer should be provided relevant environment related information (eg: recycle material content of the product,etc) on the label/packaging of the product *Conformity verification* ➢ Observations on the product label	NC
c) Advertisements on the product in communication media should deliver the environmental friendliness of particular product *Conformity verification*	NC

➢ Observations on the product advertisements (leaflets/booklets,company profile,tv/radio advertisement,etc)	
7.10 Occupational Health and Safety	
a) Appropriate measures should be Initiateed for improving occupational well-being *Conformity verification* ➢ Records of training and awareness sessions conducted and OHS plan, ➢ Incident and Accident register, ➢ Observations of using personal protection equipment.	C
b) Occupational Health and Safety management system should be implemented in compliance with ISO 45001: 2018 Occupational health and safety management systems (OHS) or any other relevant standards *Conformity verification* ➢ Valid ISO 45001: 2018 ➢ supporting documents which demonstrate the set objective for OH&S are met.	C
8) Phase: Distribution	
a) Efficient transport modes/plan should be used for finished product distribution *Conformity verification* ➢ Transport management plan/Product distribution plan is maintained and implimented	NC
9) Consideration of End-of life phase	
a) Appropriate initiatives/measures should be taken towards reducing the impact from the product's end-of life phase by showing that ; ✓ The product/packaging is recyclable at the end of its life/ elements that may prevent recycling have been avoided; or ✓ Information is provided to the user on recycling of the product/ packaging (e.g. possible options for recycling, with names of recycling facilities where possible). to minimize the amount of solid waste that ends up as land-fills *Conformity verification* ➢ Description and proof of initiatives taken to reduce impact from usage and/or end of life phase of the product	NC
b) A mechanism for encouraging product take back should be implemented for recycling or safe disposal at the end of useful life and which would involve; ✓ Collection ✓ Environmentally sound treatment of collected product ✓ Use of product & materials in the form of reuse or recycling *Conformity verification* ➢ Details of the mechanism in place for product take back ➢ Quantity of reduction in product take back	NC
10) **Legal Requirements**	

a) The Environmental Protection License (EPL) shall be obtained and implemented all its requirements *Conformity verification* ➢ Valid Environmental Protection License is available	M
b) All production activities and products shall comply with the requirements of the relevant national legislation in Sri Lanka *Conformity verification* ➢ Compilation of all the applicable Environmental and other Regulations are maintained	M

INSTRUCTIONS FOR USERS

Mandatory Requirements

When the adequacy audit of the organization's application is conducted, there shall be no non-compliance related to the mandatory requirements, and if any nonconformity is reported during the adequacy audit stage that shall be corrected before the verification.

Critical Requirements

If any violation of critical requirements is found during the verification visit, a major nonconformity will be raised, and for which suitable corrective action shall be taken within two months.
For minor nonconformities, the company should submit suitable corrective actions for each finding within three weeks to grant the eco-label certification.

Non-critical Requirements

If any violation of non-critical requirements is found during the verification visit, only minor nonconformity will be raised. The organization could take suitable corrective action within three weeks to grant the certification. This approach is applicable to surveillance verification audits as well.

APPENDIX 1: SLS Standards

LIST I
VOLUNTARY SLS STANDARDS

Product/ Material		**Relevant SLS Standard**
Paints	Emulsion paints for interior use	SLS 533
	Emulsion paints for exterior use	SLS 557
	Enamel Paints	SLS 539
	Water based enamel paints	SLS 1536

NOTE: The applicants/ manufacturers have voluntarily obtained SLS certification, they could be able to achieve points.

APPENDIX **2**

Toxic heavy metals and their compounds, or ingredients containing heavy metals and their compounds, including lead (Pb), cadmium (Cd), mercury (Hg), chromium (Cr), arsenic (As), selenium (Se), cobalt (Co), tin (Sn) and antimony (Sb), and Nickel must not be deliberately added or used.

Exemptions:
Above substance may be present as contaminants. Contaminants are defined as residues from raw material production or from a previous lifecycle (in case of recycled materials) present in the finished product, in raw materials or in alternative fuels used in the kiln, but not substances that are added to a raw material or product for a purpose, irrespective of quantity. Trace levels of contaminants may not exceed publically available safety standards.
Exemptions for a specific substance may be permitted only where the applicant can demonstrate that the substance:

- is necessary for performance or safety reasons; and
- is stored and managed in a manner that prevents environmental pollution during manufacture; and
- is chemically bound in a way that will prevent environmental pollution upon disposal by landfill or incineration.

Limits for Components

Construction Chemical products		**Substances in the product/ material**	**Limits**
Paint	**Water Based Paints**	**Lead, Mercury, Cadmium, Chromium (VI), Arsenic, Antimony**	Lead, Mercury, Cadmium, Chromium (VI), Arsenic, Antimony must not be intentionally added. However, Lead shall not be more than 0.06 % (600 mg/kg) as a mass fraction.
		Formaldehyde	Formaldehyde shall not be used or no more than 0.01% by wet weight
		Volatile organic compounds (VOCs)	The paint shall not contain volatile organic compounds (VOCs) in excess of: ➢ 50g per liter (g/L) of the water-based coatings for indoor application; ➢ 150g per liter (g/L) of the water-based coatings for outdoor application
		Volatile aromatic hydrocarbons	volatile aromatic hydrocarbons shall not be used or shall not exceed 1.0% Contamination by weight
		Halogenated solvents	Halogenated solvents shall contain no more than 0.01% by wet weight or 100mg/L
	Oil based	**Mercury, Lead,**	Should not be used

	paints	**Cadmium, Hexavalent Chromium, Antimony**	
		VOC	Shall not exceed 380 g/L including colorants
		Aromatic hydrocarbon solvents	Should not be used
Construction chemicals		**Lead**	Lead should not be used. However, Lead content shall not exceed 0.1 (mg/l)
		Chromium (VI), Cadmium	Chromium (VI) and Cadmium should not be used. However, those contents shall not exceed 2.0 (mg/l)
		Mercury	Mercury should not be used. However, Mercury contents shall not exceed 0.01 (mg/l)
		Selenium	should not be used
		Arsenic	Arsenic shall not exceed 0.2 (mg/l)
Adhesives and sealants		**Lead, Cadmium, Mercury, Chromium and Arsenic**	Lead, Cadmium, Mercury, Chromium and Arsenic should not be used. However, volume of lead (Pb) is limited only for less than 600 mg/kg
		VOC	exterior products should be less than 1.0 % as a mass fraction
		Formaldehyde	Formaldehyde should not be used
		Phathalates, Alkylphenol ethoxylates and Halogenated solvents	Phathalates, Alkylphenol ethoxylates and Halogenated solvents should not be used