



Chemicals Management in textile and leather industry

CHEMICAL MANAGEMENT SYSTEM SETTING THE FRAMEWORK

Chemical Management System

Setting the framework

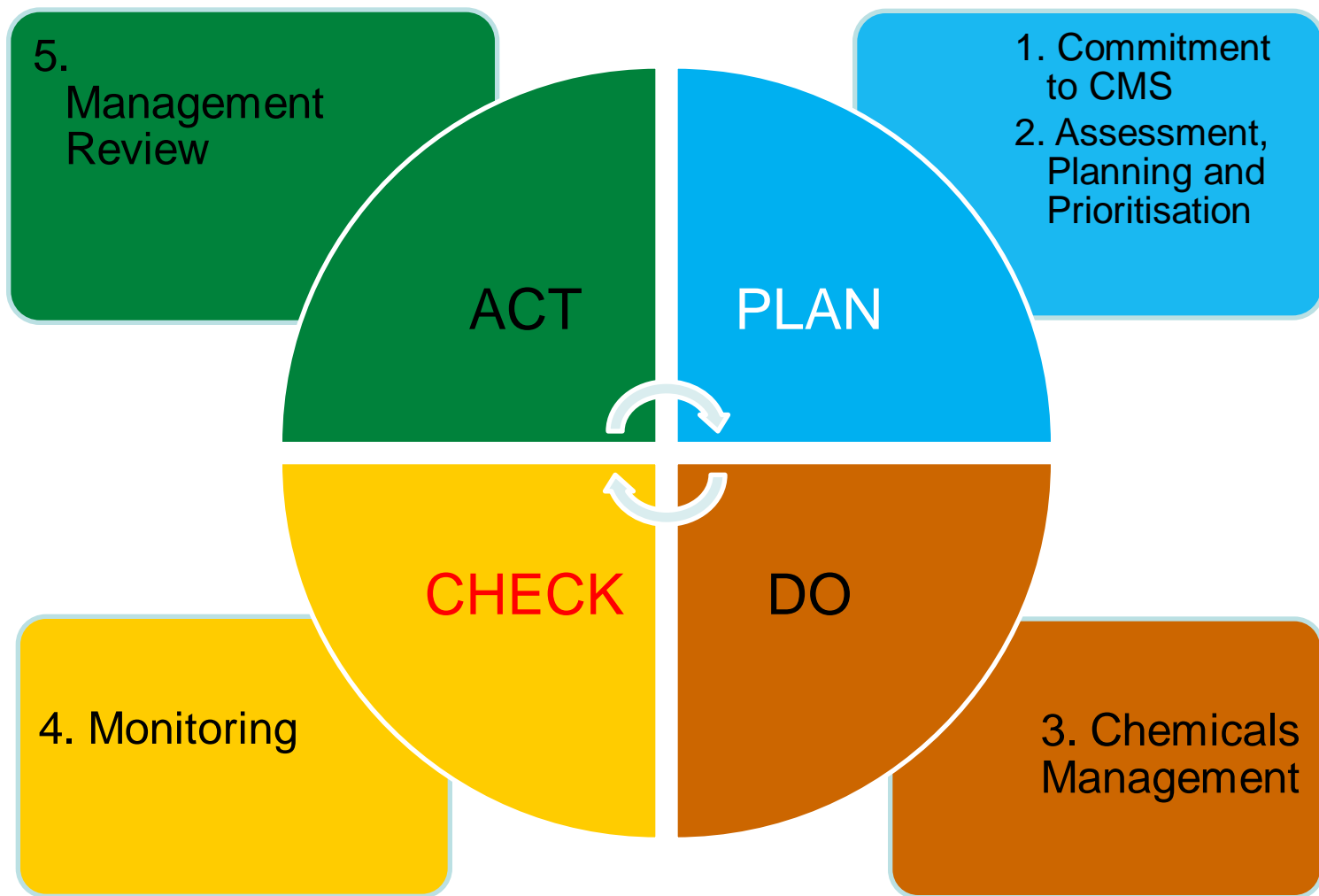
With focus on ZDHC
Chemical Management
System CMS frame work:

- Plan-Do-Check-Act cycle
- Elements of CMS (as per ZDHC CMS Guidance Manual)
- Further references

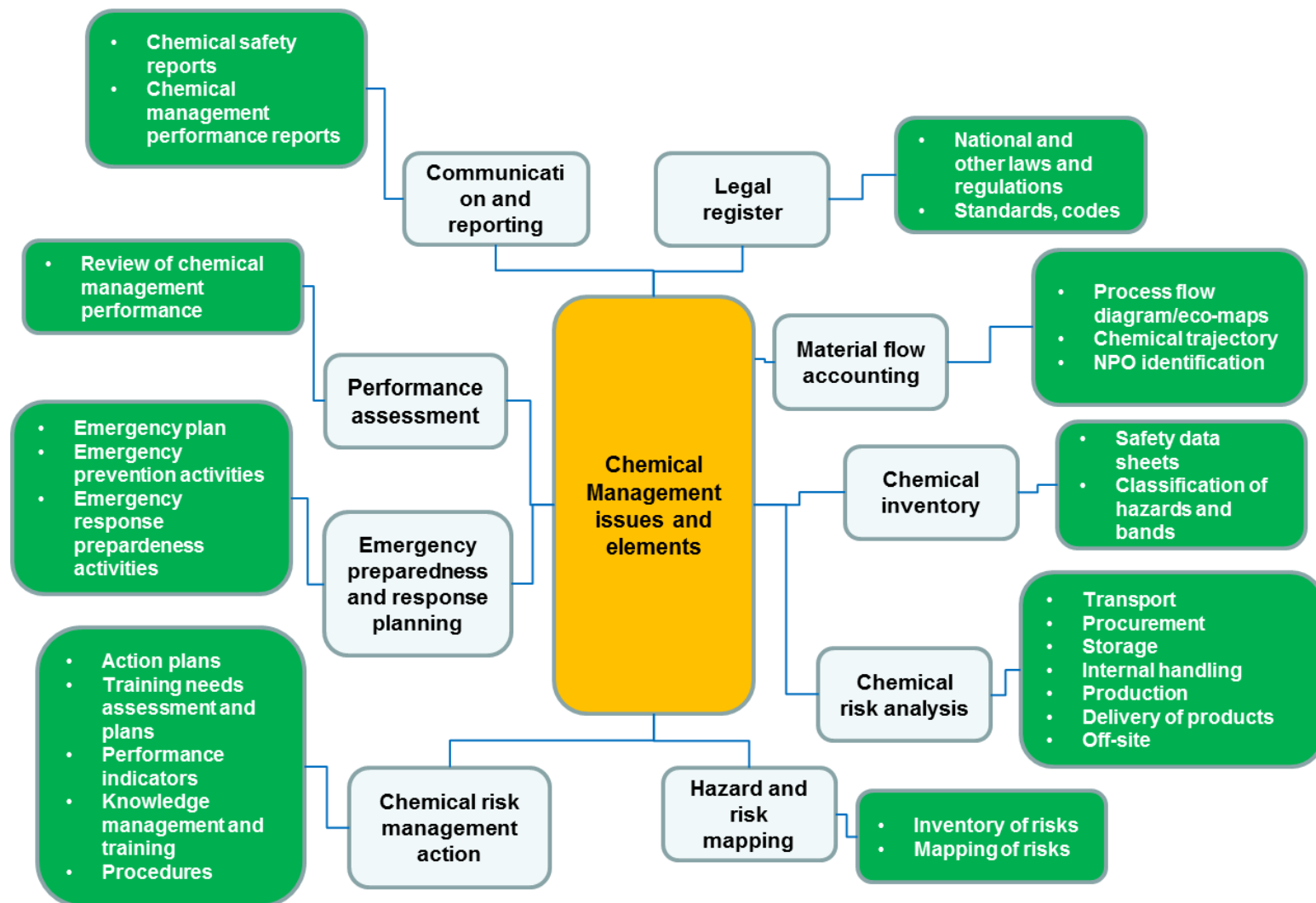


Chemical Management System

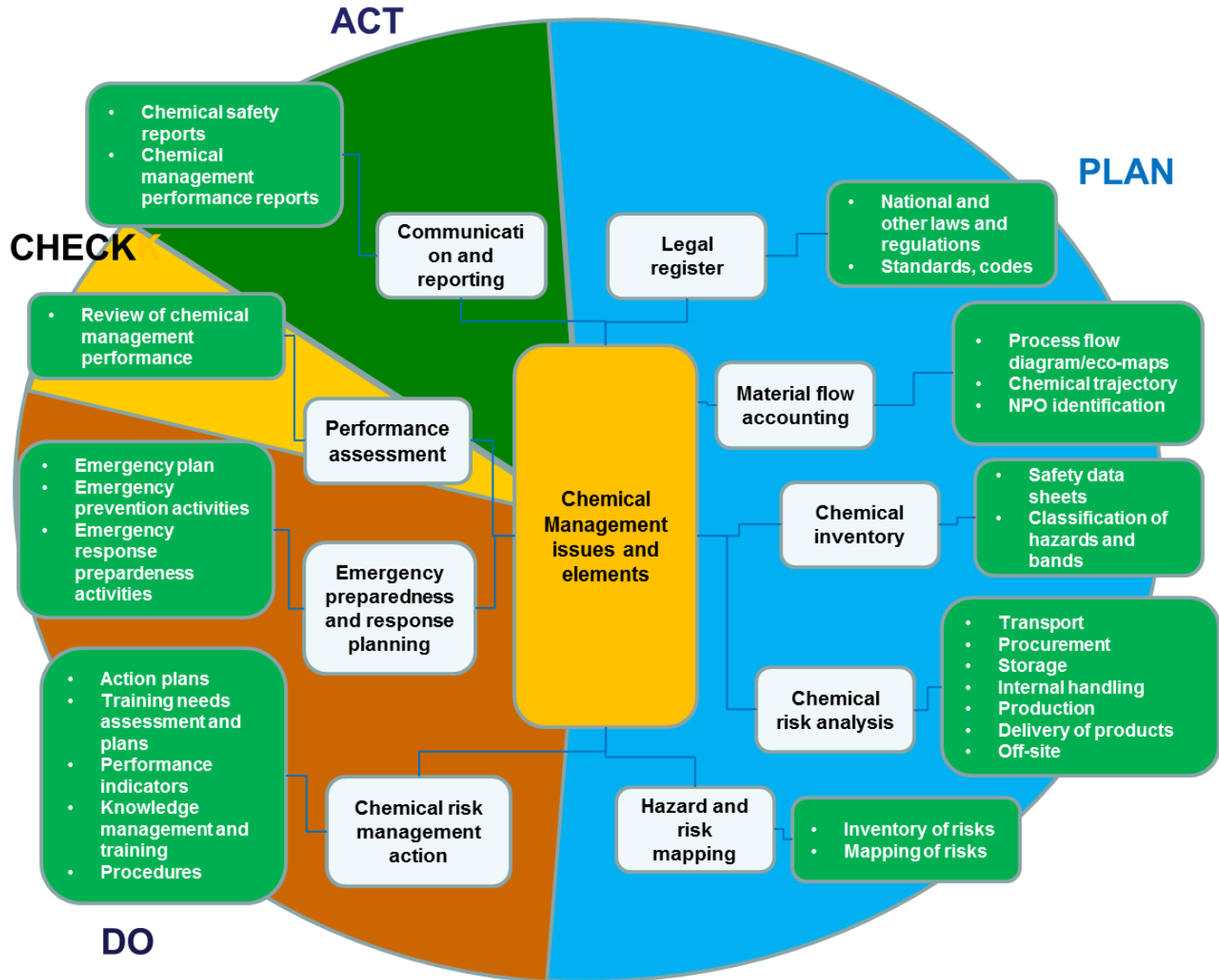
Setting the framework



Areas of attention



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1. Commitment to CMS
2. Assessment, Planning and Prioritisation





1. Commitment to CMS

1.1 Management Policy Statement

1.2 Statement indicating where the CMS is applicable

2. Assessment, Planning and Prioritization





1. Commitment to CMS
2. Assessment, Planning and Prioritisation
 - 2.1 Systematically identify and document chemicals used and stored
 - 2.2 Regulatory Assessment
 - 2.3 Procurement / Supplier Practices
 - 2.4 Chemical Risk Assessment
 - 2.5 Chemicals and Processes of Concern
 - 2.6 Performance Goals and Action Plans





1. Commitment to CMS

2. Assessment, Planning and Prioritisation

2.1 Systematically identify and document chemicals used and stored

- Factory Plan
- Chemical material flow diagrams
- Chemical inventory
- Chemical process control documents
- Accurate chemical inventory using mass balance
- Chemical discharge with Hazardous Identification

2.2 Regulatory Assessment

2.3 Procurement/Supplier Practices

2.4 Chemical Risk Assessment

2.5 Chemicals and Processes of Concern

2.6 Performance Goals and Action Plans





1. Commitment to CMS

2. Assessment, Planning and Prioritisation

2.1 Systematically identify and document chemicals used and stored

2.2 Regulatory Assessment

- Regulatory monitoring SOP and legal requirement permits inventory

2.3 Procurement/Supplier Practices

2.4 Chemical Risk Assessment

2.5 Chemicals and Processes of Concern

2.6 Performance Goals and Action Plans





1. Commitment to CMS

2. Assessment, Planning and Prioritisation

2.1 Systematically identify and document chemicals used and stored

2.2 Regulatory Assessment

2.3 Procurement/Supplier Practices

- Chemical purchasing policy considerations
- Identify chemical suppliers (listed in inventory)
- Supplier approval/removal process (e.g. SOP)

2.4 Chemical Risk Assessment

2.5 Chemicals and Processes of Concern

2.6 Performance Goals and Action Plans

CMS - PLAN



1. Commitment to CMS

2. Assessment, Planning and Prioritisation

2.1 Systematically identify and document chemicals used and stored

2.2 Regulatory Assessment

2.3 Procurement/ Supplier Practices

2.4 Chemical Risk Assessment

2.5 Chemicals and Processes of Concern

- Identify gaps and losses in current processes (e.g. hotspots)
- RSL and MRSL process (e.g. process for verifying compliance, update and maintenance, integration of suppliers)

2.6 Performance Goals and Action Plans





3. Chemical Management

3.1 Organisational Structure

3.2 Training

3.3 Document Development

3.4 Document and Record Control

3.5 Chemical Management Work Practices

3.6 Emergency Procedures





3. Chemical Management

3.1 Organisational Structure

- Roles and responsibilities (CMS organisational chart)
- Communication (procedures, warning signs, access limitations e.g. access and distribution of SDS)

3.2 Training

3.3 Document Development

3.4 Document and Record Control

3.5 Chemical Management Work Practices

3.6 Emergency Procedures





3. Chemical Management

3.1 Organisational Structure

3.2 Training

3.3 Document Development

- CMS manual

3.4 Document and Record Control

3.5 Chemical Management Work Practices

3.6 Emergency Procedures





3. Chemical Management

3.1 Organisational Structure

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3.3 Document Development

3.4 Document and Record Control

3.5 Chemical Management Work Practices

- Exposure control measures
- Safety data sheet management (procedure for making SDS available)
- Chemical handling (procedure for SOP development, format)
- Chemical storage
- Chemical transportation
- Chemical use – Regular and optimization
- Personal protective equipment (procedures for selection, use, maintenance)
- Laboratory practices
- Maintenance and housekeeping
- Waste and disposal

3.6 Emergency Procedures



CMS - CHECK



4. Monitoring

4.1 Monitor and measurements

4.2 Internal auditing

4.3 External auditing

4.4 Change management and corrective action





4. Monitoring

4.1 Monitor and measurements

- Process for monitoring goal progress (e.g. milestones, implementation of action plans)
- Progress in meeting regulatory and other requirements
- Organising internal inspections and recording results

4.2 Internal auditing

4.3 External auditing

4.4 Change management and corrective action



CMS - CHECK



4. Monitoring

4.1 Monitor and measurements

4.2 Internal auditing

- ZDHC or other audit checklist
- Audit protocol as per HiGG 3.0

4.3 External auditing

- ZDHC or other audit checklist
- Audit protocol as per HiGG 3.0

4.4 Change management and corrective action



CMS - CHECK



4. Monitoring

4.1 Monitor and measurements

4.2 Internal auditing

4.3 External auditing

4.4 Change management and corrective action

- Procedure for Change Management and Corrective Action





5. Management Review

5.1 Disclosure of substances in use

5.2 Stakeholder review

5.3 Management review





5. Management Review

5.1 Disclosure of substances in use

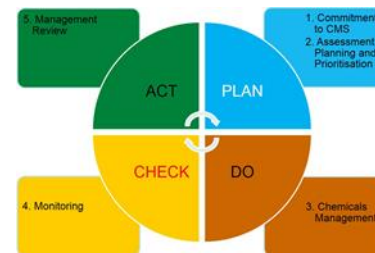
- Establish, document and implement a process for disclosing the substances in use.

5.2 Stakeholder review

5.3 Management review



Practical tips



Reference material

ZDHC CMS Guidance Manual www.roadmaptozero.com

Content:

- ZDHC CMS requirements with further explanations
- Appendixes
 - CMS references
 - Assessment checklists
 - Chemical inventory template
 - Risk assessment template

Practical tips

Chemical Management System Setting the framework



Want to know where you stand?

- Use checklists in ZDHC CMS Guidance manual appendix A
- Refer to ZDHC audit protocol (aligned with Higgs Index assessment tool of Sustainable Apparel Coalition since Nov 2016)

<http://apparelcoalition.org/the-higg-index/>