

## Governmental and Safety Constraints

- IMDS (International Material Data System)
  - Since 2000, the International Material Data System (IMDS) is a collective, computer-based material data system used primarily by automotive OEMs to manage environmentally relevant aspects of the different parts used in vehicles. It has been adopted as the global standard for reporting material content in the automotive industry.

Link: <http://www.mdssystem.com/>
  
- REACH (Registration, Evaluation, Authorization and Restriction of Chemicals)
  - The main aims of REACH are to ensure a high level of protection for human health and the environment from the risks that can be posed by chemicals, the promotion of alternative test methods, the free circulation of substances on the internal market and enhancing competitiveness and innovation. It entered into effect on 1st June 2007.

Link: [http://ec.europa.eu/environment/chemicals/reach/reach\\_intro.htm](http://ec.europa.eu/environment/chemicals/reach/reach_intro.htm)
  
- Conflict Minerals
  - Under Dodd-Frank, SEC-registered companies are required to report annually to the SEC on (a) their worldwide use of conflict minerals in products they manufacture or contract to manufacture, and (b) the cooperation of their supply chains in identifying the use of conflict minerals; identifying the country of origin for any tantalum, tin, tungsten, and gold; and determining whether conflict minerals from the DCR region are "conflict free" (that is, they do not directly or indirectly finance armed groups through mining or mineral trading in the DCR region).

Link: <http://www.sec.gov/spotlight/dodd-frank/speccorpdisclosure.shtml>
  
- RoHS (Restriction of the Use of Certain Hazardous Substances)
  - The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (SI 2012 No.3032), implements the provisions of the European Parliament and Council Directive on the Restrictions of the use of certain Hazardous Substances in electrical and electronic equipment 2011/65/EU5 ("RoHS 2"). The original RoHS Regulations have restricted the placing on the UK market of new Electrical and Electronic Equipment (EEE) containing more than the permitted levels of lead, cadmium, mercury, hexavalent chromium and both polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants in certain products since 1 July 2006.

Link: [http://ec.europa.eu/environment/waste/rohs\\_eee/legis\\_en.htm](http://ec.europa.eu/environment/waste/rohs_eee/legis_en.htm)

- ELV (END of Life Vehicles)
  - The European Commission adopted a Proposal for a Directive which aims at making vehicle dismantling and recycling more environmentally friendly, sets clear quantified targets for reuse, recycling and recovery of vehicles and their components and pushes producers to manufacture new vehicles also with a view to their recyclability.

Link: [http://ec.europa.eu/environment/waste/elv\\_index.htm](http://ec.europa.eu/environment/waste/elv_index.htm)

- Packaging & Waste Materials
  - This directive harmonized actions taken by EU nations to promote reuse and recycling and to manage packaging and packaging wastes. The 1994 Packaging Directive focuses on prevention, reuse, recycling, and other forms of recovery, and also establishes the rudiments of extended producer responsibility principles. These principles require manufacturers to play a role in mitigating the post-consumer environmental impacts of products from which they profit.

Link: <https://archive.epa.gov/oswer/international/web/html/200610-packaging-directives.html>

- Cummins - SUBSTANCES, PROHIBITED & RESTRICTED FSBU- 10089
  - This specification covers the Fuel Systems Business Unit's (FSBU) requirements for prohibited (Black List), restricted (Grey List) and reportable (Yellow List) substances, in accordance with Cummins requirements, Customer Specifications and Applicable Governmental Regulations.

Link: [https://public.cummins.com/sites/CSP/SiteCollectionDocuments/EnvironmentalStewardship/Prohibited\\_and\\_Restricted\\_Substances.pdf](https://public.cummins.com/sites/CSP/SiteCollectionDocuments/EnvironmentalStewardship/Prohibited_and_Restricted_Substances.pdf)