



## **ENVIRONMENTALLY RESTRICTED SUBSTANCES**

Cinram International, Inc. has established and follows corporate policies and procedures to:

- Control and restrict hazardous substances in our products.
- Reduce the exposure of humans and our environment to hazardous substances in our products.
- Conform to government and customer requirements concerning hazardous substances in our products, including the US Consumer Product Safety Improvement Act.

The identified substances subject to these policies and procedures are indicated on the following pages.

# Cinram Environmentally Controlled and Restricted Substances List

## A - Electronics List

Latest Up-Date: 11/20/08

### Heavy Metals

- 1| Cadmium & Cadmium Compounds [5 ppm]
- 2| Lead & Lead Compounds [90 ppm]
- 3| Mercury & Mercury Compounds [5 ppm]
- 4| Hexavalent Chromium Compounds [100 ppm]

The total combined limit of these four heavy metals in packaging is 100 ppm, but the individual limits indicated for Cadmium, Lead and Mercury may not be exceeded

### Chlorinated Organic Compounds

- 5| Polychlorinated Biphenyls (PCB)
- 6| Polychlorinated Naphthalenes (PCN)
- 7| Polychlorinated Terphenyls (PCT)
- 8| Short-chain chlorinated paraffins (SCCP)\*
- 9| Other Chlorinated Organic Compounds[S-0] - Plasticizers or flame retardants in plastics, PWB's are OK

### Bromated Organic Compounds

- 10| Polybrominated Biphenyls (PBB)\*
- 11| Polybrominated Diphenylethers (PBDE) (and decabromodiphenyl ether [DecaBDE])
- 12| Other Brominated Organic Compounds - Flame Retardants used in Plastics, or used for PWB's OK

13| Trybutyltin Compounds (TBT) and Triphenyltin Compounds (TPT)

14| Asbestos

### Specific Azo Compounds - Azodyes that form any of the amine compounds listed below

	CAS #	Amine Compounds
15	92-67-1	4-aminodiphenylamine
16	92-87-5	benzidine
17	95-69-2	4-chloro-o-toluidine
18	91-59-8	2-naphthylamine
19	97-56-3	o-aminoazotoluene
20	99-55-8	2-amino-4-nitrotoluene
21	106-47-8	p-chloroaniline
22	615-05-4	2,4-diaminodiphenylmethane
23	101-77-9	4,4'-diaminodiphenylmethane
24	91-94-1	3,3'-dichlorobenzidine
25	119-90-4	3,3'-dimethoxybenzidine
26	119-93-7	3,3'-dimethylbenzidine
27	838-88-0	3,3'-dimethyl-4,4'-diaminodiphenylmethane
28	120-71-8	p-cresidine
29	101-14-4	4,4'-methylene-bis-(2-chloroaniline)
30	101-80-4	4,4'-oxydianiline
31	139-65-1	4,4'-thiodianiline
32	95-53-4	o-toluidine
33	95-80-7	2,4-toluylenediamine
34	137-17-7	2,4,5-trimethylaniline
35	90-04-0	o-ansidine
36	60-09-3	4-aminoazobenzene

These azo compounds are generally acceptable if they do not involve continuous skin contact

# Cinram Environmentally Controlled and Restricted Substances List

- 37| Formaldehyde
- 38| Polyvinyl Chloride (PVC) and PVC blends [multiple exemptions]
- 39| Beryllium oxide
- 40| Beryllium copper

## Specific Phthalates

- |    | CAS #                   |   |
|----|-------------------------|---|
| 41 | 117-81-7                | Di (2-ethylhexyl) phthalate (DEHP)*             |
| 42 | 84-74-2                 | Di-n-butyl phthalate (DBP)*                     |
| 43 | 85-68-7                 | Butyl benzyl phthalate (BBP)                    |
| 44 | 28553-12-0 / 68515-48-0 | Diisononyl phthalate (technical mixture) (DINP) |
| 45 | 26761-40-0 / 68515-49-1 | Diisodecyl phthalate (technical mixture) (DIDP) |
| 46 | 117-84-0                | Di-n-octyl phthalate (DNOP)                     |
| 47 | 84-75-3                 | Di-n-hexyl phthalate (DNHP)                     |
| 48 |                         | Hydroflourocarbon (HFC), Perflourocarbon (PFC)  |
| 49 |                         | Perflourooctane sulfonates (PFOS)               |
| 50 |                         | Specific benzotriazole                          |

\* Substances also included on ECHA list but not repeated below

## ***B - ECHA (European Chemicals Agency) List***

Latest Up-Date 10/28/08

- 1 Triethyl arsenate
- 2 Athracene 4,4'
- 3 Diaminodiphenylmethane (MDA)
- 4 Cobalt dichloride
- 5 Diarsenic pentaoxide
- 6 Diarsenic trioxide
- 7 Sodium dichromate
- 8 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)
- 9 Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified
- 10 Alpha-hexabromocyclododecane
- 11 Beta-hexabromocyclododecane
- 12 Gamma-hexabromocyclododecane
- 13 Bis(tributyltin) oxide (TBTO)
- 14 Lead hydrogen arsenate

## ***C - Cinram List***

To be added as required