



Banned & Restricted Substance Requirements

SOP0083



1.0 Purpose and Scope

This specification outlines the restricted substance requirements for complying with the Securitas Healthcare's EHS Management System Plan. The Restricted Substances List applies to substances used in manufacturing processes, parts, sourced products, accessories, and packaging. This specification covers Securitas Healthcare's responsibilities, supplier requirements, banned and controlled substances, reportable substances, statements of compliance, audits of material to ensure compliance, raw material certification requirements and our exception policy.

2.0 Applicability

This specification applies to all Securitas Healthcare business functions and operations worldwide including those joint ventures, partnerships or other business arrangements where Securitas Healthcare holds a majority ownership interest, majority voting control, or where Securitas Healthcare, by contract, has agreed to manage the company. The requirements in this standard are the baseline requirements for all business functions. Specific business functions have the option of being more restrictive than this specification. Legal requirements may vary in different countries in which Securitas Healthcare facilities are located. This specification must be applied in each country regardless if legal requirements are less stringent. This specification will be reviewed and amended at varying time intervals based on legislation and scientific research.

3.0 Definitions

Accessories - items providing an interface between the electrical tool or appliance and the work piece e.g., abrasive discs, drill bits, chisels.

Article - An object which during production is given a special shape, surface or design, which determines its function to a greater degree than does its chemical composition. Examples of articles are a car, a battery, and a telephone.

Banned Substances – substances that are not allowed to be intentionally added.

Battery/Accumulator - any source of electrical energy generated by direct conversion of chemical energy and consisting of one or more primary battery cells (non-rechargeable) or consisting of one or more secondary battery cells (rechargeable).

Battery Pack - means any set of batteries/accumulators that are connected together and/or encapsulated within an outer casing so as to form a complete unit that the end user is not intended to split up or open.

Button Cell - any small round portable battery or accumulator whose diameter is greater than its height and is used for special purposes such as hearing aids, watches, small portable equipment and back-up power.

Controlled Substances – substances that are limited for use below specific concentration thresholds.

Exception – an allowance provided by Securitas Healthcare to use a substance that does not meet the requirements of this specification. The specific terms of the exception with respect to application and timing will vary on a case-by-case basis. The exception policy can be found in Section 8.0. Exceptions will not be given for regulatory requirements.

Exemption – an allowance provided by legislation to use a substance that does not meet the requirements of this specification. Exemptions are typically application specific and subject to change as the legislation evolves.

Fasteners – Nails and Staples.

Hardwood Plywood - means a panel composed of an assembly of (A) hardwood layers or plies of veneer or (B) veneers in combination with a platform consisting of lumber core, composite core, a special core material, or special back material, joined with an adhesive. The face veneer may be composed of a hardwood or decorative softwood species (ANSI/HPVA HP-1-2004). “Hardwood plywood” includes wall panelling, industrial panels, and “hardwood plywood” panels used in making flooring. “Hardwood plywood” does not include laminated products, military specified plywood, or curved plywood.

Homogeneous Material - A material that cannot be mechanically disjointed into different materials. The term ‘homogeneous’ is understood as "of uniform composition throughout", so examples of "homogeneous materials" would be individual types of plastics, ceramics, glass, metals, alloys, paper, board, resins and coatings. The term “mechanically disjointed” means that the materials can be, in principle, separated by mechanical actions such as unscrewing, cutting, crushing, grinding and abrasive processes. (Excerpt from RoHS Regulations Government Guidance Notes)

Material – Are items used to construct parts? Materials consist of one or more substances.

Medium density fiberboard (MDF) - A panel composed of cellulosic fibers (usually wood) made by dry forming and pressing of a resinated fiber mat (ANSI A208.2-2002).



Packaging – Materials that provide containment, protection, handling, delivery and presentation of Securitas Healthcare products. There are two types of packaging that have different requirements:

Integral Packaging - forming an integral part of a product to contain, support or preserve the product throughout its lifetime and where all elements (product and packaging) are intended to be used, consumed or disposed of together by the consumer e.g. Kit box.

Non-Integral Packaging – packaging that is intended to be discarded after removing the product.

Part – Any item or assembly that is incorporated into Securitas Healthcare products. A part can consist of one or more materials.

Particleboard - A panel composed of cellulosic material (usually wood) in the form of discrete particles (as distinguished from fibers, flakes, or strands) that are pressed together with resin (ANSI A208.1-1999).

Portable Battery/Accumulator - means any battery/accumulator, button cell, or battery pack that is sealed, can be hand carried and is not for industrial or automotive purposes.

PCB – Polychlorinated Biphenyl

PPM – Abbreviation for Parts per Million. A dimensionless quantity used to express the concentration of substances.

Reportable Substances –substances that are not currently banned or controlled for use, but a ban or voluntary phase-out is likely. If a reportable substance is used in a manufacturing process or as an ingredient in any part, sourced product, accessory, or packaging (even if the substance isn't present in the final form) then the details of the substance's use must be reported to Securitas Healthcare.

Sourced Product – A finished product that is manufactured by a supplier and purchased by Securitas Healthcare for onward distribution to the global marketplace.

Substance - A "Substance" is a chemical element, compound, or polymer and has a CAS number.

Surface Coatings - forming materials plus pigments, solvents, and other additives, which, when applied to a surface and cured or dried, yields a thin film that is functional and often decorative. Surface coatings include paints, drying oils and varnishes, synthetic clear coatings, and other products whose primary function is to protect the surface of an object from the environment.

Thin Medium Density Fiberboard - means medium density fiberboard that has a maximum thickness of eight millimeters.

4.0 Securitas Healthcare Responsibilities

It is the responsibility of Securitas Healthcare to:

- Ensure that all materials specified for designs comply with this specification.
- Inform the supplier when non-compliance is discovered.
- Inform the supplier when the contents of this specification have changed.

5.0 Supplier’s Responsibilities

It is the responsibility of the supplier to:

Supplier Responsibility
Comply with the Restricted Substance Requirements listed in Section 6.0 on <u>everything</u> (existing items, future items, and all markets) sold to Securitas Healthcare unless an exception has been granted. The exception policy can be found in Section 8.0.
Where a supplier provides alternative types of the same components and there is a potential for material change the worst-case concentration must be assumed when reporting against the requirements of SOP0083
Cascade the requirements of this specification to their sub-tier suppliers.
Respond to non-compliances discovered during surveillance testing in a timely fashion and provide documentation when requested. See Section 7.0.
Complete the online declaration to this specification. Completion and submission of the declaration to Securitas Healthcare constitutes a testament that all the information is accurate and complete. This declaration must be signed by a person who is authorized to sign on behalf of the supplier.
Report any change to the material content of an approved part, sourced product, accessory or packaging that would affect the accuracy of the aforementioned declaration.

6.0 Restricted Substance Requirements (regardless of item's intended market)

Table 1: Banned and Controlled Substances

Substance (CAS No.)	Category	Threshold	Applies to	Rev. # Added or revised	Requirement Origin	Potential Uses
Polychlorinated biphenyls (PCBs) (1336-36-3)	Banned	None intentionally added	Parts, Sourced Products, Accessories, Manufacturing Processes and All Packaging	0	Many individual market regulations (e.g. EU Directive 76/769/EEC)	Coolants and insulating fluids for transformers and capacitors, plasticizers in paints and cements, stabilizing additives in flexible PVC coatings of electrical wiring and electronic components, cutting oils, reactive flame retardants, lubricating oils, hydraulic fluids, sealants, adhesives, wood floor finishes, paints, de-dusting agents, waterproofing compounds, casting agents, vacuum pump fluids.
Asbestiform / Asbestos	Banned	None – Naturally occurring or intentionally added	Parts, Sourced Products, Accessories, Manufacturing Processes and All Packaging	0	Many individual market regulations (e.g. EU Directive 76/769/EEC)	Drywall and joint compound, plaster, mud and texture coats, adhesives, caulk, gaskets, packing, thermal pipe

						insulation, drilling fluid additives
Class I and Class II Ozone Depleting Substances (Various)	Banned	None intentionally added	Parts, Sourced Products, Accessories, Manufacturing	0	Many individual market regulations resulting from the Montreal Protocol	Refrigeration and Air Conditioning, Aerosols, Foam Blowing/Rigid

			Processes and All Packaging		See Website for list of substances: http://www.epa.gov/ozone/science/ods/index.html	Insulation Foams, Fire Extinction, Pest Control/Soil Fumigation, Solvents
Lead (7439-92-1)	Controlled	1000 PPM	Homogeneous materials in Parts, Sourced Products, Accessories, Integral Packaging	0	EU RoHS Directive 2011/65/EU See website for exemptions: http://www.rohs.gov.uk/content.aspx?id=15	Paints and pigments, PVC (vinyl) cables as a stabilizer (e.g. power cords, USB cables), solders, printed circuit board finishes, leads, internal and external interconnects, glass in television and photographic products (e.g. CRT television screens and camera lenses), metal parts, lamps and bulbs, batteries
		600 PPM	Surface Coatings	1	SB&D Company Requirement	

Mercury (7439-97-6)	Controlled	1000 PPM	Homogeneous materials in Parts, Sourced Products, Accessories, Integral Packaging	0	EU RoHS Directive 2011/65/EU See website for exemptions: http://www.rohs.gov.uk/content.aspx?id=15	lighting applications, automotive switches, batteries
		5 PPM	Battery/Accumulator	8	EU Battery Directive 2006/66/EC & 2013/56/EU US State Legislation: <u>Maine</u> , <u>Connecticut</u> , <u>Rhode Island</u> , <u>Louisiana</u> Brazil – Conama 401/08	
Cadmium (7440-43-9)	Controlled	100 PPM	Homogeneous materials in Parts, Sourced Products, Accessories, Integral	0	EU RoHS Directive 2011/65/EU See website for exemptions:	Paints and pigments, PVC (vinyl) cables as a stabilizer (e.g. power cords, USB

			Packaging		http://www.rohs.gov.uk/content.aspx?id=15	cables), solders, printed circuit board finishes, leads, internal and external interconnects, glass in television and photographic products (e.g. CRT television screens and camera lenses), metal parts, lamps and bulbs, batteries
		20 PPM	Portable Battery/Accumulator	8	EU Battery Directive 2006/66/EC & 2013/56/EU Exemption: This requirement does not apply to emergency and alarm systems, including emergency lighting, medical equipment or cordless power tools. Brazil – Conama 401-08	



Hexavalent Chromium (18540-29-9)	Controlled	1000 PPM	Homogeneous materials in Parts, Sourced Products, Accessories, Integral Packaging	0	EU RoHS Directive 2011/65/EU See website for exemptions: http://www.rohs.gov.uk/content.aspx?id=15	Metal finishes to prevent corrosion
		Detected /Not Detected (See Section 7.0)	Chromate Conversion Surface Coatings	4	SB&D Company Requirement	
Sum of Lead, Mercury, Cadmium and Hexavalent Chromium	Controlled	100 PPM	Non-Integral Packaging, Fasteners	6	EU Packaging Directive 94/62/EC and U.S. State Laws (Fasteners are often contained in packaging)	Paints and pigments used in packaging
Polybrominated biphenyl (PBB) flame retardants	Controlled	1000 PPM	Homogeneous materials in Parts, Sourced Products, Accessories, Integral Packaging	0	EU RoHS Directive 2011/65/EU Key PBBs prohibited under this section include those listed in Appendix A. See website for exemptions: http://www.rohs.gov.uk/content.aspx?id=15	Flame Retardant in Plastics

Polybrominated diphenyl ether (PBDE) flame retardants	Controlled	1000 PPM	Homogeneous materials in Parts, Sourced Products, Accessories, Integral Packaging	0	EU RoHS Directive 2011/65/EU Key PBDEs prohibited under this section include those listed in Appendix A. See website for exemptions: http://www.rohs.gov.uk/content.aspx?id=15	Flame Retardant in Plastics
Polyaromatic Hydrocarbons (PAHs)	Controlled	1 PPM See Appendix B for table of PAHs and limit values	Parts, Sourced Products, Accessories, All Packaging	14	EU REACH Annex XV German GS Mark Requirements – If a supplier is unsure of the final application then the stricter requirements below should be adhered to.	Rubber and Plastic
Perfluorooctane Sulfonates (PFOS) (1763-23-1)	Controlled	50 PPM for substances	Parts, Sourced Products, Accessories, All Packaging	7	EU Directive 2006/122/EC	Stain Repellant (Possibly Labels)
		1000 PPM for semi-finished products				
Dimethylfumarate (DMF) (624-49-7)	Controlled	1 PPM	Parts, Sourced Products, Accessories, All Packaging	8	EU Directive 2009/251/EC	Desiccants
Formaldehyde Emissions (50-00-0)	Controlled	0.05 PPM	Hardwood Plywood Veneer Core	8	93120-93120.12, title 17, California Code of Regulations	Table Tops for Stationary Products
		0.05 PPM	Hardwood Plywood Composite Core	8	TSCA Title VI	
		0.09 PPM	Particleboard	8	Based on the primary test method [ASTM E 1333-96 (2002)]	
		0.11 PPM	Medium Density Fiberboard	8		

		0.13 PPM	Thin Medium Density Fiberboard	20	
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		0.0075 mass % of textile	Textiles	8	Exemption provided for packaging. Textile requirement comes from IEC62474	
Chromium Trioxide (1333-82-0)	Controlled	1000 PPM	Homogeneous materials in Parts, Sourced Products, Accessories, Integral Packaging. Manufacturing operations in Europe	15	EU REACH Regulation 1907/2006/EC sunset date September 21, 2017	Metal finishes to prevent corrosion.
Tetrachloroethene, (perchloroethylene, carbon tetrachloride, hydrogen chloride, and hexachlorobutadiene)	Controlled	(-)	Parts, Sourced Products, Accessories, Manufacturing Processes and All Packaging	0	Securitas Healthcare Restricted Substance	Solvent and Degreaser for metal parts
Methylene Chloride (dichloromethane)	Controlled	(-)	Parts, Sourced Products, Accessories, Manufacturing Processes and All Packaging	0	Securitas Healthcare Restricted Substance	Solvent and Degreaser for metal parts
Di(2ethylhexyl)phthalate (DEHP) (117-81-7)	Controlled	1000 PPM	Homogeneous materials in Parts, Sourced Products, Accessories, Integral Packaging	20	EU RoHS Directive 2011/65/EU Amendment – effective July 2019 https://ec.europa.eu/environment/waste/rohs_eee/legis_en.htm	Rubber

Butyl benzyl phthalate (BBP) (85-68-7)	Controlled	1000 PPM	Homogeneous materials in Parts, Sourced Products, Accessories, Integral Packaging	20	EU RoHS Directive 2011/65/EU Amendment – effective July 2019 https://ec.europa.eu/environment/waste/rohs_eee/legis_en.htm	Rubber
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Di-n-butyl phthalate (DBP) (84-74-2)	Controlled	1000 PPM	Homogeneous materials in Parts, Sourced Products, Accessories, Integral Packaging	20	EU RoHS Directive 2011/65/EU Amendment – effective July 2019 https://ec.europa.eu/environment/waste/rohs_eee/legis_en.htm	Rubber
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DIBP – Diisobutyl Phthalate (84-69-5)	Controlled	1000 PPM	Homogeneous materials in Parts, Sourced Products, Accessories, Integral Packaging	20	EU RoHS Directive 2011/65/EU Amendment – effective July 2019 https://ec.europa.eu/environment/waste/rohs_eee/legis_en.htm	Rubber
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PFAS	Controlled	1000 PPM	Homogeneous materials in Parts, Sourced Products, Accessories, Integral Packaging	21	EU REACH Regulation 1907/2006/EC. Perfluorinated carboxylic acids (C914 PFCAs), their salts and precursors will be restricted in the EU/EEA from February 2023	Widely used in household and consumer products
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Decabromodiphenyl ether (DecaBDE) Phenol, isopropylated phosphate (3:1) (PIP (3:1)) 2,4,6-Tris(tertbutyl)phenol (2,4,6-TTBP) Hexachlorobutadiene (HCBD) Pentachlorothiophenol (PCTP)	Controlled	(-)	Homogeneous materials in Parts, Sourced Products, Accessories, Integral Packaging	22	US Reporting Requirements for TSCA Section 6(H) until October 31 st , 2024.	Substances used in flame retarders, intermediate reactant, by product of CHS, rubbers
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Table 2: Reportable Substances

Class of Substances	Rev. # Added	Requirement Origin
REACH Substances of Very High Concern (SVHC)	8-12 20	<p>EU REACH (EC 1907/2006) Substance of Very High Concern</p> <p>List of substances and supporting documentation can be found at: https://echa.europa.eu/candidate-list-table</p> <p>Where appropriate all registration requirements for substances that need registering under the EU REACH Regulations should be undertaken by the supplier. Please confirm that, if this was required, it has been completed.</p> <p>Where appropriate all registration requirements for substances that need registering under the UK REACH Regulations should be undertaken by the supplier. Please confirm that, if this was required, it has been completed.</p>

<p>California Safe Drinking Water and Toxic Enforcement Act of 1986</p>	<p>1-13</p>	<p>Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986.</p> <p><u>List of chemicals regulated by Proposition 65</u></p> <p>Suppliers of a part or accessory should inform Securitas Healthcare if the part or accessory, sold on its own, would result in an exposure that requires a Proposition 65 warning. Suppliers of sourced products should assess the product and apply labels accordingly. The Proposition 65 substance list can be found at http://oehha.ca.gov/proposition-65/proposition-65-list</p> <p><u>The Proposition 65 list has numerous chemicals, most of which would not likely be present in items purchased for Securitas Healthcare products. The substances listed below have been found in products before and therefore, we are specifically listing those chemicals with a PPM concentration limit that if exceeded, requires reporting “Yes” to this question.</u></p> <p>Lead in Cordsets – 300 PPM Lead in PVC coverings on hand tools – 200 PPM Lead in Brass Accessories (e.g. compressor valve) – 300 PPM Di(2-ethylhexyl)phthalate (DEHP) (117-81-7) – 1000 PPM Di-isodecyl phthalate (DIDP) (26761-40-0)– 1000 PPM Diisononyl phthalate (DINP) (68515-48-0)– 1000 PPM Di-n-butyl phthalate (DBP) (84-74-2)– 1000 PPM Di-n-hexyl phthalate (DnHP) (84-75-3)– 1000 PPM Butyl benzyl phthalate (BBP) (85-68-7)– 1000 PPM</p> <p>A third party test report showing compliance to the phthalate limits is required for vinyl pouches</p>
<p>Di-n-octyl Phthalate (DnOP) (117-84-0)</p>	<p>15</p>	<p>Phthalate of concern due to inclusion in children product phthalate regulations. See more information at https://www.cpsc.gov/Business—Manufacturing/Business-Education/BusinessGuidance/Phthalates-Information</p>
<p>Polyvinyl Chloride Components</p>	<p>17</p>	<p>Customer Concern</p>
<p>Halogenated Flame retardants and flame retardants containing phosphorus</p>	<p>17</p>	<p>Swedish Law concerning tax levied on chemicals in certain electronic items, SFS2016: 1067. Applies to printed circuit boards (not components on board) and plastic parts greater than 25 g. Specific bromine, chlorine and phosphorus compounds regulated can be found here: http://rkrattsdb.gov.se/SFSdoc/16/161067.PDF</p>

		EU Ecodesign requirements for electronic displays (2019/2021) does not allow the use of halogenated flame retardants in the enclosure or stand of the display.
Latex	18	Allergen Concern for Securitas Healthcare Products
Nickel	18	Allergen Concern for Securitas Healthcare Products
UK REACH Registration Requirements	20	UK REACH requirements following UK leaving the European Union – https://www.hse.gov.uk/brexit/reach-guidance.htm
IEC 62474 Substances not previously covered in this specification	20	<ul style="list-style-type: none"> Perchlorates – In lithium ion batteries and coin cells. Limit 6×10^{-7} mass% of battery or product part Polychlorinated naphthalenes – Reportable if intentionally added Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA Textiles, photographic coatings applied to films, paper or printing plates and other coated consumer products – 1 mg/m² Other products - 0.1 mass% of the part (as the sum of PFOA)
EU Waste Framework Directive SCIP Database	21	Should necessity arise, suppliers should submit information to the EU SCIP Database and provide Securitas Healthcare with the SCIP Database reference number / information

Table 3: Statements of Compliance

Topic	Statement of Compliance
Radioactive Materials	The products, parts, and accessories provided to Securitas Healthcare do not emit radiation above background levels.
Animal Fur	The products, parts, and accessories provided to Securitas Healthcare do not contain animal fur.
Wood Products	To meet the requirements of the European Union Timber Regulations 995/2010 products, parts, and accessories provided to Securitas Healthcare that contain wood (other than packaging and paper) must have a legal 'certificate of harvest' that can be produced when requested.
Conflict Minerals	To meet the requirements of the United States Dodd Frank Act section 1502 the products, parts and accessories provided to Securitas Healthcare should not contain conflict minerals (Columbite-tantalite, Cassiterite, Wolframite, and Gold) that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo or an adjoining country. This will also be verified under separate communication using the EiCC / GeSI spreadsheet.



7.0 Compliance Surveillance

Securitas Healthcare requires test results for the substances listed below to demonstrate proof of compliance to SOP00083. Test results can come from a supplier laboratory or a third-party laboratory. The passing test results should be loaded into the Silicone Expert system under the appropriate part number.

- Heavy Metals (Lead, Cadmium, Mercury, Hexavalent Chromium) in parts and packaging
- Polybrominated biphenyls and Polybrominated diphenyl ethers in Plastics
- Polycyclic Aromatic Hydrocarbons (PAH) in Plastics and Rubber
- Phthalates in Plastics

7.1 Raw Material Certification Requirements

Raw material certifications are required from all suppliers that provide high risk parts. High risk parts are defined as:

- Painted parts – material certification for Paint only
- Zinc Plated parts – material certification for Chromate Conversion coating – Hexavalent or Trivalent
- Plastic parts
- Electrical parts – material certification for solder, terminal finishes, wire sheathing, switches, and relays
- Cord sets - material certification for non-metallic parts only – sheathing, plug
- Lead wires – material certification for non-metallic parts only – sheathing
- Rubber parts
- Zinc castings – material certification for Chromate Conversion coating only – Hexavalent or Trivalent

Examples of high-risk materials/parts are listed below:

- PVC (cadmium and lead as stabilizer and colorant. Phthalates as a Plasticizer)
- Plastic parts (PBDE and PBB as flame retardant)
- Red/orange/yellow plastics (cadmium, lead and chromium VI as lead Chromate; as colorant)
- Plated metal enclosures, fasteners, clips, and screws (Hexavalent Chromium as chromate finish)
- Populated printed-wiring-boards (PWBs) and their parts (lead as solder and terminal finish)
- Switches, relays (mercury as component of switch/relay)
- Lead solder used inside components
- Paint (cadmium and lead)
- Zinc castings (Hexavalent Chromium as chromate finish)

The raw material certification should come from the raw material

supplier during the first part inspection and loaded into the Silicone Expert system under the appropriate part number. If the raw material changes over time, a new raw material certification should be provided to Securitas Healthcare. Examples of appropriate raw material certifications can be found in Appendix C. The material certification should at least contain the following fields:

- The Manufacturer
- The Trade Name
- The Grade
- The Color
- The Lot Number

8.0 Exception Policy

For any material that does not meet all of the requirements of this specification, an application for exception may be made to the Restricted Materials Committee by providing the following information to your Securitas Healthcare sourcing representative.

- a) Supplier details (name, address, contact information, etc.)
- b) Part number and description
- c) Report from an independent recognized lab or Securitas Healthcare lab identifying the level of restricted substance
- d) Details of where the substance is found and what properties or function it provides.
- e) Details of alternative materials available including any impacts arising from its use, different processes, reduced performance, durability etc.

The committee will review the request and respond by either granting the exception or denying the exception and providing recommendations for compliance. Exceptions will not be granted where there is a regulatory requirement to meet a specific limit.

A record of all the granted exceptions can be found in EP154 – Restricted Material Sample Plan.

Appendix A – Key Brominated Flame Retardants

Polybrominated Biphenyls (PBBs)	Chemical Abstracts Service (CAS) #
Bromobiphenyl	2052-07-05, 2113-57-7, 92-66-0
Decabromobiphenyl	13654-09-06
Dibromobiphenyl	92-86-4
Heptabromobiphenyl	59080-40-9, 36355-01-8(hexabromo-1,1'-biphenyl, 67774- 32-7 (Firemaster FF-1)
Hexabromobiphenyl	59080-40-9, 36355-01-8,
Nonabromobiphenyl	27753-52-2
Octabromobiphenyl	61288-13-9
Pentabromobiphenyl	67888-96-18
Polybrominated Biphenyl	59536-65-1
Tetrabromobiphenyl	60044-24-8
Tribromobiphenyl	Not available
Polybrominated Diphenyl Ethers (PBDEs)	Chemical Abstracts Service (CAS) #
Bromodiphenyl Ether	101-55-3
Decabromodiphenyl Ether	1163-19-5
Dibromodiphenyl Ether	2050-47-7
Heptabromodiphenyl Ether	68928-80-3
Hexabromodiphenyl Ether	36483-60-0
Nonabromodiphenyl Ether	63936-56-1
Octabromodiphenyl Ether	32536-52-0
Pentabromodiphenyl Ether	32534-81-9
Tetrabromodiphenyl Ether	40088-47-9
Tribromodiphenyl Ether	49690-94-0

Appendix B – Polyaromatic Hydrocarbons (PAHs)

Parameter (mg/kg)	Category 1 Materials intended to be put into the mouth or materials of toy for children with long term intended skin contact (longer than 30 s)	Category 2 Materials not covered by category 1, with foreseeable long term skin contact (longer than 30 s) or repeated short-term skin contact		Category 3 Materials not covered by category 1 or 2, with foreseeable short term skin contact (shorter than 30 s)	
		Toys according to 2009/48/EC	Other products according to ProdSG	Toys according to 2009/48/EC	Other products according to ProdSG
Benzo[a]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[e]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[a]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[b]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[j]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[k]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo[a,h]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[g,h,i]perylene	<0.2	<0.2	<0.5	<0.5	<1
Indeno[1,2,3-c,d]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluorathene	<1 (sum)	<5 (sum)	<10 (sum)	<20 (sum)	<50 (sum)
Naphthalene	<1	<2		<10	
Sum of 18 PAH	<1	<5	<10	<20	

Appendix C – Examples of Material Certification



中國鋼鐵

品質證明書
TEST CERTIFICATE

中國鋼鐵股份有限公司
CHINA STEEL CORPORATION
中華民國高雄市小港區中鋼路1號
1 CHUNG KANG ROAD HSIAO KANG, KAOHSIUNG(812),
TAIWAN, REPUBLIC OF CHINA,
TEL: (07)802-1111 FAX: (07)802-2511,(07)801-9427

P. 2

395211

F0126-01 0395

離 0594

客戶名稱 SOLD TO	泰豪鋼鐵股份有限公司 TAI HAO STEEL MATERIAL CO., LTD.	產品名稱 PRODUCT	CR SHEET-COIL	
規格名稱 SPEC	JIS G3311 S50CM MOD., OILED RESTRICTED HARDNESS HRB: B5/B5 R-25	發票號碼 INVOICE NO	ZY74432758	證明書編號 CERTIFICATE NO
檢驗	688-MISE-INSPECTION	客戶編號 CUSTOMER NO	B2484982	中鋼訂單編號 CSC ORDER NO
		交運日期 SHIPPING DATE	MAY. 18, 2004	證明書日期 T/C ISSUE DATE
		客戶訂單編號 CSC ORDER NO		

Tai Hao Steel CO., Ltd.

2006年12月 9時33分

項目 ITEM	產品序號 LABEL NO.	MATERIAL DESCRIPTION				爐號 HEAT NO.	鋼捲號碼 COIL NO.	試片編號 SAMPLE ID.	拉伸試驗 G.L.	Y.S.	T.S.	EL.	硬 度 %RB	化學成份 CHEMICAL ANALYSIS %											備 註 REMARK	
		厚度 THICK	寬度 WIDTH	長度 LENGTH	數量 PCS									重量 KGS	C	Mn	P	S	Si	Ni	Cr	Mo	Al	AINC		
	F409828	0.80	914	COIL	1	10.98	454638	454638						47	60	30	35	1530	20	20		35				
	TOTAL:					10.98								53	80	MAX	35	MAX	MAX	MAX		MAX				
						10.98								50	77	18	3	28	1	2	2	32	4			

註釋 NOTES	#05 硬度試驗 HARDNESS TEST	NC = NI + CR
SURVEYOR TO		茲證明本表所列產品，均依材料規格製造及試驗，並符合規格之要求。 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.
		YC Huang for 冶金技術處處長 GENERAL MANAGER, METALLURGICAL DEPARTMENT

BASF Corporation



Certificate of Analysis

Customer: BLACK & DECKER MY-035 701 EAST JOPPA ROAD TOWSON MD 21286	Product Number : 53675154 Product Name : CM_B3ZG6 GY7639 25kg 5H4 V Vehicle : Batch/Lot : 0101891528 Manuf.Date : 08/23/2006 Shipped Date : Shipped Quantity : 50.000 KG Delivery Date : 08/30/2006 Order Number : 1392250232 Delivery Note : 2093113362				
Attention: FAX: Cust Prod: Cust Prod Name: Cust P.O.: SAMPLE-ATTN:LESLIE B					
Characteristic	Result	UOM	----Specification----		Test Method
Ash Content	30.02	%	28.00	32.00	ASTM 5630
Moisture Content	0.06	%		0.20	ASTM D789
MFR 235/5	10.4	dg/min	5.0	15.0	D1238

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