

## SWEDISH LAWS AFFECTING SALE OF POISONS.

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[CONCLUDED.]

PROCLAMATION BY ROYAL BOARD OF HEALTH OF STOCKHOLM, 28th February, 1876.

After a long preamble it gives a catalogue.

*First.*—Of poisonous matters which may only be sold by druggists, or chemical manufacturers who have prepared them, and only in conformity with rules laid down in Decree of January 6th.—Amygdalin, Chloride of Antimony, Metallic Arsenic, Arsenic Acid, Arseniate of Soda, and all Arsenical Salts other than painters' colours; Arsenite of Potash and other Arsenites not being painters' colours; Atropin and its Salts; Oil of Bitter Almonds, containing Prussic Acid; Cyanide of Potassium, and Cyan. Salt, which is mixture of KCy and NaCy; Prussic Acid; all Cyanides, except those containing Iron, such as Red and Yellow Prussiate of Potash, Prussian Blue, &c.; Digitalin, Phosphorus, Chloral Hydrate, Chloroform, Koniin and Salts; Tartar Emetic, Antimonial Wine, Antimoniate of Potash, and Emetic Salts in general; all Bases extracted from Opium and Salts appertaining thereto; Nicotine and Salts; Pierotoxin; all Mercurial Salts, Oxide, Chloride, and Sublimate; Strychnia; Brucia and Salts; Sulphides of Arsenic, Orpiment, Realgar, &c.; Oil of Sabine and other preparations; Veratrin and Salts; Vegetable Alkaloids, other than above; Aconite, Colchicin, Sabadillin, &c., with their Salts or corresponding Extracts; Belladonna Leaf, Root, or Extract; Bitter Almond Water, Extract Henbane, Prussic Acid Emulsion, Curare and Urare Poisons; Digitalis Leaf, Extract, and Tincture; Elaterium; Ignatius

Bean ; Indian Hemp or Extract ; Kalabar Bean ; *Cocculus Indicus* ; Croton Seeds or Oil ; Mezereon ; Lactucarium ; Laurel Water ; Lobelia Herb and Tincture ; Secale and preparations ; Conium and preparations ; all preparations of Opium, Euphorbium, Veratrin, Hellebore, Nux Vomica, Sabadilla ; Scammony ; Cantharides and Extract, &c. ; Stramonium ; Staphisagria ; Aconite Root, Leaf, or Extract ; Colchicum and preparations.

*Second.*—Such poisons as may be sold by licensed dealers according to rules in Decree of January 6th.—Ammonia, Aniline, Baryta Salts, Litharge, Red Lead, Sugar of Lead, Strong Oil of Vitriol, Sulphates of Copper and Iron, Oxalic Acid, Salts of Sorrel, Ink Powder, Caustic Potash and Solution, Chloride of Zinc, and Chloride of Zinc and Ammonia, Bisulphide Carbon, Blue Vitriol, Blue Stone, Oxide Copper, Chromic Acid Oxide and Salts, Caustic Soda and Solution, Nitro-benzol, Mirbane Oil, Imitation Oil of Bitter Almonds, Oxalic Acid, Nitric Acid, Muriatic Acid, Nitrate and Oxide of Silver, Salts of Tin and Zinc, Concentrated Acetic Acid. Poisonous colours, containing Zinc, Cadmium, Bismuth, Tin, Chromic Acid, Antimony, Lead, Copper, Mercury, and Arsenic. Those most usually used are mentioned, but all cannot be specified.

#### WHITE COLOURS.

White Lead, Hamburg White, Dutch White, Pearl White, Silver White, Slate White, Spanish White, Tin White, Venetian White, Bismuth White, Zinc White.

#### GREY AND BLACK COLOURS.

Lead Black, Iron Black, Copper Black, Black Cinnabar, Zinc Grey, all Coal Tar Grey and Black Colours when they contain arsenic, copper or other poisonous material.

#### RED AND ORANGE COLOURS.

Red Sulphide of Antimony, Red Lead, Realgar, Cinnabar, Vermilion, Orange Chrome, Red Chrome, Minium, Paris Red, Red Varnish Paints, Amarin, Berlin, Viennese and Fenambruck Reds, Sap Red, &c. Red and Yellow Tar Colours when they contain arsenic or other poisonous ingredients.

#### YELLOW COLOURS.

Antimony Yellow, Baryta Yellow, Cadmium Yellow, Lemon Chrome, Yellow Ultramarine, Gamboge, Hamburg Yellow, Jaune Brilliant, Kassel Yellow, Imperial Yellow, Cologne Yellow, Chrome Yellow, Leipsic Yellow, Massicot, Mangel Yellow, Mineral Yellow, Neapolitan Yellow, New Yellow, Patent Yellow, Permanent Yellow, Picric Acid, Siderin Yellow, Steinbuhl Yellow, Verona Yellow, Zinc Yellow and Zinc Chrome, Brass Lacquer made with metallic salts. All Yellow Tar Colours which contain arsenic or any poisonous ingredients, Orpiment, and all Sulphides of Arsenic.

#### BLUE AND VIOLET COLOURS.

Azure Blue, Celestial Blue, Bremen Blue, Cerulian Blue, Sky Blue, Chalk Blue, Cobalt Ultramarine, Cobalt Violet, Copper Blue (blue verditer), King's Blue, Mineral Blue, Neuberg Blue, Smalt, Thenand's Blue, Violet, Lac and Zinc Blue. All Blue Tar Colours containing arsenic or other poisonous substances.

#### GREEN COLOURS.

Azure Green, Brunswick, Bremen, Cassilman's, Elsners and Cinnabar Greens, English, Ground, Cassel's, Imperial and Cherryhill Greens, Cobalt Greens, Chrome, May, Mineral Moss, Neuwied's, New, Original, Parrot, Paris and Permanent Greens (Pickel and Reseda), Rinmon's, Scheele's, Schweinfurt, Swiss, Emerald, Spanish, Turkish, Vienna, Victoria,

Wurzburg, Zinc and Verdigris, Green and all Green Tar Colours containing arsenic or other poisonous ingredients.

#### BROWN COLOURS.

Hatchett's, Chemical and Copper Browns, Copper Red Brown, Bismuth Brown, and all Brown Tar Colours, containing arsenic or other poisonous ingredients.

It is remarkable that all Coal Tar Colours contain arsenic or other poisonous matters, but no hint is given that any are in themselves deleterious.

This very important sentence follows the list of colours :—

Regarding the existence of arsenic in colours or paints, it has hitherto been supposed that this substance is found only in copper green colours. It is now known to exist in many other colours, amongst which are some of the brightest reds which are supposed to be heightened in brilliancy by arsenic. This poison is also found in many grey colours employed in the manufacture of paperhangings ; also in Aniline colours which have been carelessly purified. In these arsenic would not be suspected, and can only be found by chemical process.

List of articles which may be used to colour confectionery :—

#### WHITE COLOURS.

Chalk, Starch (Potato or Arrowroot).

#### BLACK COLOURS.

Ivory Black, Lamp Black, Charcoal Soot, Indian Ink.

#### RED COLOURS.

(In Decree all Mercurial Salts are prohibited).

Carmine, Vermilion, Cochineal, Red Sandal, Brazil Wood, Currant Juice, Alkanet, Raspberry, Barberry, Saffron.

#### YELLOW COLOURS.

Saffron, Turmeric, Annatto, Quercitron, Quassia, Marigold, Persian Berries.

#### BLUE AND VIOLET COLOURS.

Clean Ultramarine, Indigo, Archil, Purple Iris, Logwood, Wormwood Flowers, Bilberry, Elderberry, Sloes, Black Cherry, Mulberry, Black Currant.

#### GREEN COLOURS.

Spinach, Pistacio, or any of the above named yellows and blues mixed.

#### BROWN COLOURS.

Burnt Sugar, Coffee, Catechu, Chino, Liquorice.

#### METALS.

Gold and Silver Leaf, pure.

The absolute prohibition of the sale of all paperhangings, &c., containing arsenic having been found oppressive to tradesmen, in November, 1879, the following definition of what was to be considered arsenical within the meaning of the Decree was published :

No paperhangings to be sold if a piece of 50 Swedish square inches (68·2 English square inches) or less can by chemical means have produced from it metallic arsenic sufficient to produce a black or brown mirror in a glass tube 2 millimetres (·04 inch English) internal diameter.

Textile fabrics, lamp shades, &c., if 25 Swedish square inches show similar mirror.

Candles, Sealing Wax, &c., if a sample weighing 5 Swedish orts (385·8 grs. English) can be made to show similar mirror.

Chemists employed, to give certificates under hand and seal, accompanied by an hermetically sealed tube containing the mirror obtained as above, and also a piece of the paper, &c., large enough to identify it with the original goods, and to enable a further analysis to be made, in case of dispute, and shall be accompanied also by a certificate from the analyst that all his chemicals were duly tried by him and found free from arsenic.

To come into force on 1st July, 1880.

It is to be regretted that no more definite directions as to the productions of this mirror are given, or how much arsenic per piece of paper it is supposed to represent, as differences would be pretty sure to arise amongst analysts as to the meaning of a black or brown mirror, &c.

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