

HEALTH AND SAFETY DATA SHEET

PRODUCT

Polyester

COMPOSITION

Steel coil; Electrozinc; Hot Dipped Galvanised or Hot Dipped in Zinc/ Aluminium also Aluminium in coil coated with Polyester and grey backing coat.

HAZARDS

Polyester compositions under normal conditions of storage and handling are safe to use and are not toxic. Some of the pigments within the paint and pre-treatment systems contain Strontium Chromate and basic Chromium Chromate. Exposure limits have been established by the Health and Safety Commission for both of these substances and should always be observed.

| Substance | OEL 8 Hr (a) | OEL 10 Min (b) |
|-------------------------|------------------------|-------------------|
| Strontium Chromate | 0.05 mg/m ³ | As cr |
| Basic Chromium Chromate | 0.05 mg/m ³ | As cr |

- a) Long term exposure limit – 8 hours time weighted average
- b) Short term exposure limit – 10 minute time weighted average
- c) Control limit
- d) Recommended limit

(skin) There is a risk of absorption through unbroken skin

During welding, flame cutting or in case of fire there will be irritating and toxic fumes. The fumes will contain:

- Oxides of iron, zinc, aluminium (if Aluzink substrate)
- Oxides of iron and zinc (if galvanised substrate)
- Methyl Methacrylate
- Hydrogen Chloride
- Acrolein
- Phenols
- Carbon Monoxide

PRECAUTIONS

- Protective clothing should be worn to prevent laceration of the skin.
- Suitable eye protection should be worn.
- When subjected to high temperatures e.g. during cutting, welding or flame cutting there will be irritating and toxic fumes, therefore appropriate respiratory equipment should be used.
- High levels of breathable dust can be given off during grinding or dry sanding. The dust will contain strontium chromate which is harmful if inhaled, therefore appropriate respiratory equipment should be used.

FIRST AID

Eye Contact: Rinse with clean water for at least 15 minutes. If eyes still irritated seek medical advice.

Skin Contact: Wash skin thoroughly using a recommended skin cleaner. If there is still a problem seek medical advice.

FIRE PREVENTION

Under normal circumstances Polyester Compositions are non-flammable but may be consumed by fire. Below is the current occupational exposure limits for Polyester:

| | 8 Hr. TWA (a) | 10 Min TWA (b) |
|--------------------------------|-------------------------|-------------------------|
| Carbon Monoxide | 50 PPM | 400 PPM |
| Hydrogen Chloride | 5 PPM | 5PPM |
| Chromium (Hexavalent) Compound | 0.05 MG/M ³ | - |
| Iron Oxide Fumes (As Fe) | 5.00 MG/ M ³ | 10.0 MG/ M ³ |
| Zinc Oxide Fumes | 5.00 MG/ M ³ | 10.0 MG/ M ³ |
| Aluminium Oxide | 10.00 MG/M ³ | 20.0 MG/M ³ |

This health and safety data has been compiled using the following guidance.

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| Toxic Substances – A Precautionary Policy | EH18 |
| Occupation Exposure Limits 1984 | EH40 |
| Monitoring Strategies for Toxic Substances | EH42 |
| Carbon Monoxide | EH43 |
| Dust in the Work Place, General Principles of Protection | EH44 |
| Protection Eye Regulations 1974:S1 1681 | HMSO |
| Guidance Notes EH44 – Dust in the Workplace (With amendments) | HMSO |
| Respirators for protection against harmful dust, gases and scheduled agricultural chemicals – BS2091:1969 (with amendments) | BSI |
| Specification for filtering face piece dust respirators – BS6016:1980 | BSI |
| Recommendations for the selection, use and maintenance of respiratory protective equipment BS4275:1974 | BSI |
| DHSS Special Security Act 1975 CM37 – Report by the Industrial Injuries Advisory Council on the question whether lung cancer in workers in certain occupations should be prescribed under the Act April 1986 | HMSO |
| Exposure Limits (latest annual edition) | HMSO |
| Guidelines on the Safe Handling of Chromate Pigments and Chromate- Containing Paints | PMA |