

HEALTH AND SAFETY DATA SHEET

PRODUCT

PVC (Plastisol)

COMPOSITION

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

HAZARDS

PVC 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.

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