

## MATERIAL SAFETY DATA SHEET

**POLYCHLOROPRENE CONTAINING COMPOUNDS, MOULDINGS AND EXTRUSION including polychloroprene blends, flame resistant compounds containing polychloroprene and mouldings made from polychloroprene containing compounds.**

**PRODUCT IDENTIFICATION: RSIC-1 (STEEL COMPONENT)**

**Manufacturers Name: Stud and Track Export Pty Ltd**

**Address: 71 Milperra Road Revesby N.S.W 2212  
SYDNEY AUSTRALIA**

Chemical Name: Steel and Rubber Composition

Chemical Family: Metals/Rubber

### **COMPOSITION – applies to compounds, mouldings and extrusion.**

Polychloroprene. Mineral fillers. Carbon black reinforcing fillers. Metal oxide activators. Naphthenic oil, aromatic oil and non-flammable phosphate plasticisers. Chlorinated flame retardant. Phenolic or amine derived antioxidants. Ethylene Thiourea ETU and sulphur vulcanisers. Anti crusting borates. Sulphur, Thlurams, Thiazyl Disulphides, Guanidine cure modifiers. Miscellaneous additives include organic acids, resins, process aids, waxes and activators.

### **HAZARD IDENTIFICATION**

Apart from the onset of cure, Polychloroprene compounds are quite stable up to curing temperatures which are typically 180° C. However, after prolonged heating above these temperatures they will start to decompose, finally emitting fumes and vapours around 200° C, which may be toxic and flammable.

### **FIRST AID**

**Eye Contact** In the event of eye contact with fumes, decomposition products or hot compounds, immediately flush with plenty of water.

**Skin Contact** In the event of skin contact with fumes, decomposition products or hot compounds, cool skin rapidly with cold water and wash off with soap and plenty of water.

**Inhalation** If fumes, decomposition products or high temperature emitted vapours are inhaled, move to fresh air. In cases of extreme exposure consult a doctor.

### **FIRE FIGHTING MEASURES**

#### *Ignition Temperature*

Polymer	>	260° C
Compounds	>	260° C
Mouldings	>	260° C
Extrusion	>	260° C

**Hazardous Decomposition Products** Hydrogen Chloride, Carbon Monoxide, Complex and toxic fumes from the decomposition products of incorporated organic accelerators, vulcanisers, antioxidants, plasticisers, processing aids and flame retardants.

**Extinguishing Media** Water. Foam. Carbon Dioxide. Dry Powder.

**Protective Clothing** Fire may cause Hydrochloric Acid to be evolved. Wear self-contained breathing apparatus and protective clothing for fire fighting.

### **HANDLING AND STORAGE**

Store compound below 25° C in an open, well ventilated area. Cured mouldings and extrusion may be stored at higher temperatures without any ill effects.

Do not consume food when handling compound.

Avoid inhalation of curing fume and vapours.

Ensure maintenance of personal hygiene standards.

### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

The composition of polychloroprene compound fume during cure cycle is complex but emissions from polychloroprene compounds are known to contain Carbon Dioxide, Carbon Monoxide, Water, Nitrosamines from Thiuram containing compounds and traces from Thiourea. Fumes may only be present during cure cycle, prolonged heating above standard core temperatures and combustion of mouldings and extrusion, which are otherwise stable.

The C.O.S.H.H regulations of 1988 state that rubber fume be contained within a maximum exposure level, M.E.L., of 0.75mg/m<sup>3</sup> measured by personal operator sampling, and expressed as an 8 hour time weighted average. This limit has now been reduced to 0.6mg/m<sup>3</sup> since January 1990.

When moulding, extruding and curing polychloroprene containing compound, operate at temperatures as low as is reasonably compatible with economical throughput. Sufficient local exhaust ventilation must be provided at processing centres to ensure compliance with the regulations and the protection and safe working of process operators.

In animal experiments it has been shown that oral administration of Ethylene Thiourea, ETU, can cause the development of thyroid and liver cancers. Additionally, pregnant rats treated by application to the skin of large doses of ETU produced malformed offspring. Whilst there is no present evidence of an excess of either thyroid cancer or foetal malformation in humans exposed to ETU, it is classed as an animal carcinogen and special care must be taken in handling ETU.

It is recommended by the suppliers of ETU that women of childbearing age should not be employed in any production stages involving the handling or curing of compounds containing ETU Ethylene Thiourea.

There is no present evidence that mouldings and extrusion made from compounds containing polychloroprene and other materials outlined in the composition are hazardous or present a danger to humans. Polychloroprene moulding and extrusions are used in everyday life and the hazards are basically restricted to the processing of polychloroprene containing compounds into mouldings and extrusion and the combustion of moulded and extruded products.

### **PHYSICAL DATA**

Specific Gravity 1.20 – 1.80

Strip containing some surface antitack agent.

Preforms containing some surface antitack agent.

Vulcanised compound cured to dimensional requirements in the form of mouldings and extrusion.

**STUD & TRACK EXPORT PTY LTD**  
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**II PRODUCT DESCRIPTION: RESILIENT SOUND ISOLATION CLIP**

**III PHYSICAL DATA**

Melting Point F (C): greater than 2800 (1540)  
Vapor Pressure: Not Applicable  
Vapor Density (Air = 1): Not Applicable  
Solubility in Water: Negligible  
Appearance and Odor: Grayish to Silvery Odorless Sheet,  
Strip, Plate, Bar or Structural Shapes  
Specific Gravity (H2O = 1): Greater Than 7%  
Volatile by Volume (%): Not Applicable  
Evaporation Rate: Not Applicable

**IV FIRE AND EXPLOSION HAZARD DATA**

Flash Point F (C): Not Applicable  
Flammable Limits: Not Applicable  
Extinguishing Media: Use methods applicable to surrounding area.  
Usual Fire and Explosion Hazards: None  
Special Fire Fighting Procedures: Use self-contained breathing apparatus for protection against degradation products and fire fighting technique or agent (s) applicable to surrounding materials.

**V HEALTH HAZARD DATA**

Applicable Statuary or Recommended Occupational Exposure Limits:  
No Threshold Limit Value (TLV) or Permissible Exposure  
Limit (PEL) exists of steel.

**ACUTE EFFECTS** -

SWALLOWED: - Not expected to be swallowed in the form supplied  
EYE: - Not irritating to eyes in the form supplied.  
SKIN: - Not irritating to skin in the form supplied.  
INHALED: - Not expected to be inhaled in the form supplied. Welding or cutting operations that generate zinc oxide fume may lead to zinc fume fever.

**CHRONIC EFFECTS** - No reports of effects from prolonged or repeated exposure to the product as supplied. Prolonged skin contact with chromium surface treatments may lead to chromium sensitisation in sensitive individuals. Prolonged contact with the surface oil used for corrosion protection may irritate the skin in sensitive individuals.

**VI REACTIVITY DATA**

Stability: Consider Stable  
Incompatibility: Not incompatible with materials  
Conditions to Avoid: May liberate metal fumes, metal oxide  
or other oxides if exposed to elevated temperatures.  
Coating can react with acids and alkalis, giving off hydrogen gas.

**VII SPILLS AND DISPOSAL**

No Special procedures usually required. This product can be recycled.

**VIII SPECIAL PROTECTION INFORMATION**

Not applicable in the form supplied.

**IX SPECIAL PRECAUTIONS**

Not classified as Dangerous Goods.  
Stow and secure adequately to prevent movement during transportation and storage. Store in a dry environment to prevent corrosion in storage.

**DISCLAIMER**

*Stud and Track Export Pty Ltd makes no warranties, expressed or implied, including, but not limited to, the implied warranties or marketability and fitness for a particular purpose.*

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