



## **Material Safety Data Sheet**



### **Manlon C30**

#### **01: Product Identification and Use**

**Supplier:** Alpha Plastic Chemicals Ltd.

**Telephone:** +44 20 88 168 125

**Product Name:** PVC Impact Modifier Manlon C30

**Product Use:** Impact Modifier Manlon C30 for Rigid PVC

**Chemical Formula:** (C<sub>8</sub>H<sub>8</sub>·C<sub>5</sub>H<sub>8</sub>O<sub>2</sub>·C<sub>4</sub>H<sub>6</sub>)<sub>x</sub>

**Molecular Weight:** Mixture

**Chemical Family:** Resin

#### **02: Composition/Information on Ingredients**

**Component:** Methyl Methacrylate-Butadiene-Styrene Copolymer %: 97-99

**CAS Registry Number:** 25053-09-2

**Individual residual monomers:** None

#### **03: Hazards Identification**

Route of entry:

**Skin contact:** Prolonged or repeated skin contact can cause the following: Slight skin irritation.

**Skin absorption:** Not available

**Eye contact:** Monomer vapours from heated product can cause a slight irritation.

**Inhalation:** Inhalation of dust can cause irritation of the nose, throat and lungs. Inhalation of monomer vapours from heated products can cause the following irritation of nose, throat and lungs. It can also cause nausea and headaches.

**Ingestion:** Not available

**Effects of acute exposure:** See above

**Effects of chronic exposure:** See above

**Inhalation, chronic:** Not available

#### **04: First Aid Measures**

Instructions:

**Inhalation:** Move subject to fresh air.

**Eye contact:** Flush eyes with water. Consult a physician if irritation Persists.

**Skin contact:** Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

**Ingestion:** If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

#### **05: Fire Fighting Measures**

**Flammability:** Not flammable.

**Conditions:** Will burn at elevated temperatures.

**Means of extinction:** Water spray, carbon dioxide, foam or dry chemical. Do not use solid stream of water.

**Ignition temperature:** 335°C

**Upper explosion limit (% v):** Not available

**Lower explosion limit (%v):** Not available

**Hazardous combustion products:** Oxides of carbon.

**Explosion data:** Avoid dispersion of dust into the air to reduce the potential explosion hazard.

**Sensitivity to impact:** No

**Sensitivity to static discharge:** Avoid accumulation of static electricity and possible formation of dust during transfer of powder into metallic installations. Provide grounding.

#### **06: Accidental Release Measures**

**Leak/Spill:** Appropriate protective equipment must be worn when handling a spill of this material. See section 8, *Exposure controls/personal protection*, for recommendations. If exposed to material during clean-up operations, see section 4, *First aid measures*, for actions to follow. Floor may be slippery; use care to avoid falling. Eliminate all ignition sources. Ventilate the spill area. Transfer spilled material to suitable containers for recovery or disposal.

#### **07: Handling and Storage**

**Handling procedures and Equipment:** Monomer vapours can be evolved when material is heated during processing operations. See section 8, *exposure controls/ personal protection*, for types of ventilation required. Static charges can accumulate; use bonding and grounding between transfer equipment and receiving containers and for any other operations capable of generating static electricity.

**Storage needs:** Material can burn; limit indoor storage to approved areas equipped with automatic sprinklers. Avoid all ignition sources. The maximum recommended storage temperature for this material is 45°C.

#### **08: Exposure controls/Personal protection**

**Gloves:** Any kinds of protective gloves

**Respiratory protection:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Eye:** Use safety glasses with side shields.

**Clothing:** Adequate protective clothes.

**Engineering controls:** Use local exhaust ventilation with a minimum capture velocity of 150 ft/min (0.75 m/sec) at the point of dust or mist evolution. Refer to local regulations of industrial ventilation detailed information.

#### **09: Physical and Chemical Properties**

**Physical state:** White free-flowing powder

**Odour:** Slight acrylic

**Odour threshold:** Not available

**Vapour pressure (mmhg):** Not applicable

**Vapour density (air=1):** Not applicable

**Evaporation rate:** Not applicable

**Boiling point:** Not applicable

**PH:** Not applicable

Date: 01/11/09

**Specific gravity (water=1):** 0.25-0.55 g/cm<sup>3</sup>

**Solubility in water (% w/w):** Insoluble

#### **10: Stability and Reactivity**

**Chemical stability:**

**Thermal decomposition temp:** This material is considered stable. However, avoid temperature above 250°C, the onset of polymer decomposition.

**Materials to avoid:** acids, bases, oxidizing agents

**Hazardous decomposition products:** No decomposition if used as directed.

**Polymerization:** Product will not undergo polymerization.

#### **11: Toxicological Information**

**Acute oral toxicity:** LD50 rat Dose: > 5,000 mg/kg

**Acute dermal toxicity:** LD50 rabbit Dose: > 5,000 mg/kg

**Acute inhalation toxicity:** LC50 rat

**Skin irritation:** Rabbit

**Result:** Slight irritation

**Eye irritation:** Rabbit

**Result:** slight irritation

**Further information:** Information given is based on data obtained from similar substances.

#### **12: Ecological Considerations**

Environmental toxicity information: No applicable data.

#### **13: Disposal Considerations**

**Waste disposal:** For disposal, incinerate this material at a facility that complies with local, provincial, and state regulations.

#### **14: Transport Information**

This material is not hazardous for land, air and marine transportations.

#### **15: Regulatory Information**

The product quality is regulated by the standard listed below: Q/RFH 014-2005.

#### **16: Other Information**

The above data is based upon our knowledge and experience. The safety data sheet is only intended to give a description of products with regard to safety requirements. The data cannot be interpreted as a guarantee of properties.