



Material Safety Data Sheet



Manlon C20

01: Product Identification and Use

Supplier: Alpha Plastic Chemicals Ltd.

Telephone: +44 20 88 168 125

Product Name: PVC Impact Modifier Manlon C20

Product Use: Impact Modifier Manlon C20 for Rigid PVC

Chemical Formula: (C₈H₈·C₅H₈O₂·C₄H₆)_x

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/cm³

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.