

# METZO<sup>®</sup> PLAST PP/C and PP/C (3/11)

## 1. Identification of the substance/preparation and name of the company/undertaking

### Identification of Substances:

Trade name: METZO<sup>®</sup> PLAST PP/C and PP/C (3/11) (sheets and films)  
 Chemical designation: PP-MD (Polypropylene Copolymer)  
 Product type: Solid matter  
 Application of this substance: Thermoformable sheets and films

**Manufacturer / Supplier:** A. ALGEO LTD.  
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## 2. Hazards identification

Important hazards - None  
 Symptoms during processing: - Above 200°C smoke/fumes can lead to irritation of the respiratory system.  
 - Molten product can cause burns.  
 Physical-chemical hazards: combustible  
 Classification system: This product is, according to EEC directives 1999/45, 67/548, 76/769 and following amendments, not classified as hazardous

## 3. Composition / information on ingredients

Chemical characterization: Preparation of Polypropylene Copolymer and Ethylene as Comonomer, and if applicable colorants.  
 CAS-Nr. Designation 9010-79-1, 1-propene, polymer with ethene (Mixture of the substances with harmless additives)

## 4. First aid measures

General information: at room temperature the product is neither an irritant nor gives hazardous vapours.  
 The measurements listed below apply to critical situations (Fire, incorrect process conditions)  
 After inhalation: in case of excessive inhalation of fumes move the person to fresh air. Call for medical help. Keep person warm, if necessary give mouth-to-mouth resuscitation, or artificial respiration.  
 After skin contact: After contact with the molten product, cool rapidly with cold water  
 Do not pull solidified product away from the skin  
 Seek immediate medical advice.  
 After eye contact: Rinse opened eye for several minutes under running water. Then consult doctor.  
 After swallowing: No specific measures have to be taken if the product is swallowed. Get medical advice if necessary.  
 Indications for the doctor: After inhalation of decomposition products symptomatic treatment (decontamination, vital functions), no known specific antidote.

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### 5. Fire-fighting measures

- Suitable extinguishing media: Water spray, carbon dioxide, foam, chemical powder
  - Unsuitable extinguishing media: None
  - Special hazards by the material, its products of combustion or resulting gases:
    - in Case of fire it can release: water (H<sub>2</sub>O), carbon dioxide (CO<sub>2</sub>), and when lacking oxygen (O<sub>2</sub>), carbon monoxide (CO).
    - The products of the burning are dangerous.
    - The formation of hydrocarbons and aldehydes are possible in the initial stages of a fire (especially in between 400 °C and 700 °C)
  - Protection of fire-fighters: In case of fire wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing.
  - Further information: Fire category A (solid materials).
- Residues and contaminated water have to be disposed of according to applicable regulations.  
Heat value: 8000 – 11000 kcal/kg

### 6. Accidental release measures:

- Procedure for cleaning/removal: Sweep up, recover if possible or dispose of according to applicable regulations.
- Person-related safety precautions: No specific measures are necessary (see point 8)
- Measures for environmental protection: No special measures required (see points 12 and 13)

### 7. Handling and storage

- Information for safe handling: No special requirements necessary, if handled at room temperature.  
When bringing the material to processing temperatures gases might develop, forming:
- propylene
  - ethylene
  - hydrocarbon substances with low molecular weight and their oxidants products.
  - Solvents residues
  - Traces of formaldehyde and acrylaldehyde
  - Traces of acids (formic acid, acetic acid)
- Provide appropriate ventilation for such processing conditions.  
Experimental tests under different application conditions showed maximum limits of formaldehyde, acrylaldehyde, formic acid and acetic acid being significantly below TLV-values.
- Fire- and explosion prevention: No special measures required.  
For all kinds of polymers, if dust is created during transport or handling, safety measures against danger of explosion have to be taken.
- Storage: protect from heat and direct sunlight.  
Store under dry conditions

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### 8. Exposure controls and personal protection

Components with limit values require monitoring at the workplace:

,	Not required	
-	Propylene	CAS-Nr. 115-07-1
	Ethylene	CAS-Nr. 74-85-1

Additional exposure limit values for possible processing dangers:

<b>107-02-8 Acrylaldehyde</b>	
WEL ()	Short-term value: 0,7 mg/m <sup>3</sup> , 0,3 ppm Long-term value: 0,23 mg/m <sup>3</sup> , 0,1 ppm
<b>50-00-0 formaldehyde</b>	
WEL ()	Short-term value: 2,5 mg/m <sup>3</sup> , 2 ppm Long-term value: 2,5 mg/m <sup>3</sup> , 2 ppm
<b>64-18-6 formic acid</b>	
WEL ()	Long-term value: 9,6 mg/m <sup>3</sup> , 5 ppm

Additional information; see point(s) 7, 9.

Personal protective equipment: Do not eat or drink while working  
Do not smoke while working  
Provide system for collecting the vapours which are created during the working process.  
- If appropriate ventilation is not available use face mask when handling the molten product  
- Eye protection: When there is a risk of sprays of molten material; facial protection equipment should be worn -

### 9. Physical and chemical properties

Appearance: Sheets and foils of varying thickness.  
Colour: Varying with colouration.  
Odour: Odourless if cold, mild if melted  
Changes of state: Melting point > 140 °C  
Decomposition temperature > 300 °C  
Ignition temperature > 360 °C  
Danger of explosion Product is not explosive (see point 7)  
Density 0,90 – 0,94 g/cm<sup>3</sup> ISO 1183  
Solubility in / Miscibility with water Insoluble

### 10. Stability and reactivity

Thermal decomposition / Conditions to be avoided:

The product is stable at normal handling and storage conditions.  
Decomposes over 300 °C

Materials to be avoided: Strong oxidation agent

Dangerous products of decomposition:

No hazardous decomposition products known at room temperature.

Dangerous reactions: No dangerous reactions known

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### 11. Toxicological information

Acute toxicity, primary irritant effect: - No irritant effect on the skin  
- No irritant effect on the eye  
- No sensitizing effect known

Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### 12. Ecological information

Information about elimination: The product is not biodegradable.

Behaviour in environmental systems: Floats on water. There is no bioaccumulation.

General notes: The product is not toxic, small particles can have effects on water and soil organisms.

### 13. Disposal considerations

If the product is not recyclable for impurities or uncontrolled mixtures, disposal through controlled incineration or authorised waste dump.

Waste code - Nr. 116 119

Other solid plastic waste materials

European waste list wrapping:

070213

Disposal through controlled incineration or authorised waste dump

### 14. Transport information

According to national and international guidelines, which regulate the road-, rail- air- and sea transport, this product is classified as not dangerous.

### 15. Regulatory information

Designation according to EC guidelines: The material is not subject to classification according to EC lists and other sources of literature known to us. Observe the normal safety regulations when handling chemicals.

National regulations: This product is not subject to the ordinance on Hazardous Substances in Germany

Water hazard class: WGK 0 (Germany)

Other regulations, limitations and prohibitive regulations:

Generally all national regulations regarding this product type apply.

### 16. Other information

Underlined sections advert to changes to the previous editions.

The information supplied has been based upon the current level of information available, for purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics. VITASHEETGROUP Metzeler takes no responsibility for inappropriate use, processing and handling by purchasers and users of the product.