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METZO[®]PLAST HDPE/MF, HDPE/T and HDPE/ET

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

Product Name:	METZO [®] PLAST HDPE/N	IF (sheets and films) and HDPE/ET (sheets and films)			
Chemical nature:	METZO [®] PLAST HDPE/N METZO [®] PLAST HDPE/T	IF PE-HD (high density polyethylene) and HDPE/ET HD (high density polyethylene) and PE-LD			
Product type:	Solid matter	. ,			
Name of the company / su	pplier:				
Company:	METZELER PLASTICS (52428 Jülich-Kirchberg	GMBH			
	Phone	02461/64-0, Fax 02461/64-210			
	Emergency Call	02461/64-0, Fax 02461/64-210			
Mailing address of the person responsible for this SDS:					
	benno.krott@vitasheetgroup.de				
Utilization of this material:	Deep-drawable plastic sh	neets and films			

Hazards Identification 2.

This product does not require a hazard warning label in accordance with GHS criteria. Classification of this product and mixture: not classified

Composition/information on ingredients: 3.

Formulation:

Preparation of PE-HD (respective PE-HD and PE-LD) and colours

Component	CAS Number	Amount	EINECS / ELINCS	Sym	R-Phrases
Polyethylene	9002-88-4	< 100 % weigh	Exempt	NA	NA
Polyethylene Hexene Copolymer	25213-02-9	< 100 % weigh	Exempt	NA	NA
Additives	Various	< 4 % weight	NA	NA	NA
Colours	Various	< 4 % weight	NA	NA	NA

Occupational Exposure Limits:

Component	Limit	TWA	STEL	Ceiling / Peak	Notation
Polyethylene	ACGIH	3 mg/m ³	NA	NA	NA
Polyethylene	German MAK	6 mg/m³	NA	NA	NA
Polyethylene	ACGIH	Not	NA	NA	NA
Hexene		established			
Copolymer					

Control as Particulate Not Otherwise Classified (PNOC). The ACGIH Guideline for respirable dust is 3,0 mg/m³ and 10 mg/m³ for total dust. The OSHA PEL for respirable dust is 5,0 mg/m³ and 15,0 mg/m³ for total dust.







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4. First-aid measures

Ingestion: If bl	Move person to fresh air. If effects occur, consult physician. If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed by medical personnel.			
Skin Contact: W ne ic at tis	Wash skin with plenty of water. Seek first aid or medical attention as needed. If molten materials come in contact with the skin, do not apply ice but cool under ice water or running stream of water. DO NOT attempt to remove the material from skin. Removal could result in severe tissue damage. Seek medical attention immediately. Suitable emergency safety shower facility should be immediately available.			
Eye Contact: Fl le ad	ish eyes thoroughly with water for several minutes. Remove contact ses after the initial 1-2 minutes and continue flushing for several ditional minutes. If effects occur, consult a physician, preferably an hthalmologist.			
u: sr	tion: First Aid responders should pay attention to self-protection and e the recommended protective clothing (chemical resistant gloves, ash protection). If potential for exposure exists refer to section 8 for ecific personal protective equipment.			
Notes to physician: If la D co ex	burn is present, treat as any thermal burn, after decontamination. If age is performed, suggest endotracheal and/or esophageal control. nger from lung aspiration must be weighed against toxicity when hisidering emptying the stomach. No specific antidote. Treatment of bosure should be directed at the control of symptoms and the clinical indition of the patient.			
Fire Fighting Measures				
Fire classification:	OSHA Classification (29 CFR 1910.1200): Not classified by			
Extinguishing Media:	OSHA as flammable or combustible. Water fog or fine spray. Dry chemical fire extinguishers.			
Fire Fighting Procedures:	Carbon dioxide fire extinguishers. Foam. Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. If material is molten, do not apply direct water stream. Use fine			
	water spray or foam. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide			
extinguishers may be used for small fires.				
Unusual File and Explosic	 Hazards: Pneumatic conveying and other mechanical handling operations of regrind material can generate combustible dust. To reduce the potential for dust explosions, do not permit dust to accumulate. 			
Hazardous Combustion Proc				



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Special Protective Equipment: for Fire-fighters:

Remark:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves) If protective equipment is not available or not used, fight fire from a protected location or safe distance

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Electrical equipments and electrical lighting has to be protected in compliance with the standards to avoid that dust came in contact with hot surfaces, electrical sparks or other sources of ignition.

Dispose decays of brand and water of fire-fighting in compliance with local prescriptions.

6. Accidental Release Measures: Personal Precautions

Environmental Precautions:

Steps to be taken if material is released:

7. Handling and storage

General Handling:

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection

Prevent from entering into soil, ditches, sewers, waterways and / or groundwater. See section 12, Ecological information. Sweep up. Collect in suitable and properly labeled containers. See section 13, Disposal Considerations for additional information

No smoking, open flames or sources of ignition in handling and storage area. Good housekeeping and controlling of dusts are necessary for safe handling of product. Avoid breathing process fumes. Use with adequate ventilation. Workers should be protected from the possibility of contact with molten product. Do not get molten material in eyes, on skin or clothing. Pneumatic conveying of milled material and other mechanical handling operations can generate combustible dust. To reduce the potential of dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge. Store in compliance with local prescriptions.

Storage:

8. Exposure controls / Personal Protection

Personal Protection:

- Respiratory Protection: (to be used by manufacturing) Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk process. Use an approved air-purifying respirator when vapours are generated at increased temperatures or when dust or mist is present. Use the following CE approved air-purifying respirator: When dust/mist are present use a/an Particular filter, type P2. When combinations of vapours, acids, or dust/mists are present use a/an Organic vapour cartridge with a particulate pre-filter, type AP2.



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- Eye / Face Protection

Engineering Controls:

Ventilation:

If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. Chemical googles should be consistent with EN 166 or equivalent. If exposure causes eye discomfort, use a full-face respirator.

Dusts and mists have to be evacuated.

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

9. Physical and Chemical Properties

	Physical state:	Sheets and films in various thicknesses		
	Colour	varying		
	Odour:	faint specific odour		
	Softening temperature	> 100 °C (DIN EN ISO 306		
	Flash point	340 °C		
	Self-ignition temperature	380 °C (DIN 51794)		
	Density (Nature)	approx. 1,03 kg/dm ³ (DIN 53479)		
	Solubility in water	insoluble in cold and hot water		
	Lower explosion limit:	As a result of our supplier with this product and his		
		knowledge of its composition, he does not expect any hazard		
		as long as the product is used appropriately and in		
		accordance with the intended use.		
	Upper explosion limit	As a result of our supplier with this product and his		
		knowledge of its composition, he do not expect any hazard		
		as long as the product is used appropriately and in		
		accordance with the intended use.		
10.	Stability and Reactivity			
	Conditions to avoid:	Avoid extreme heat. Avoid all sources of ignition: heat,		
		sparks, and open flame		
	Chemical stability:	This product is considered stable under normal ambient ant		
	-	anticipated storage and handling conditions of temperature		
		and pressure.		
		To avoid thermal degradation do not overheat, degradation		
		starts at approximately 300 °C		
	Thermal decomposition	approx. 300 °C		
		To avoid thermal degradation do not overheat		
	Hazardous reactions:	The product is chemically stable.		
	Substances to avoid:	Not applicable		
	Hazardous decomposition products:	Low molecular weight hydrocarbons, alcohols, aldehydes,		
	He ends a Del service de s	acids and ketones can be formed during thermal processing		
	Hazardous Polymerisation:	Hazardous polymerization will not occur.		

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11. Toxicological Information

	Toxicological information				
	Acute toxicity	Assessment of acute toxicity: Contact with molten product may cause thermal burns			
	Irritation:	Assessment of irritating effects: No irritation is expected under intended use and appropriated handling			
	Other relevant toxicity information:	Based on our experience, the experience of our suppliers and the information available, no adverse health effects are expected if handle das recommended with suitable			
	Additional toxicology information:	precautions for designated uses. This product contains polymerized Olefins During thermal processing (> 177 °C) olefins can release vapours and gases (Idehydes, ketones and organic acids) which are irritating to the mucous membranes of the eyes, mouth, throat and lungs. Generally these irritant effects are all			
		transitory. However, prolonged exposure to irritating off-gases can lead to pulmonary edema. Formaldehyde (an aldehyde) has been classified as a probable human carcinogen by NTP, IARC (2A) and OSHA based on animal data and limited epidemiological evidence. The toxicological properties of this product have not been			
		tested or have not been tested completely and its handling or use may be hazardous. EXERCISE DUE CARE:			
12.	Ecological Information				
	Ecotoxicity:	Assessment of aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived by our suppliers from the structure of the product.			
	Persistence and degradability:	Assessment biodegradation and elimination (H2O) The polymer component of the product is poorly biodegradable. The insoluble fraction can be removed by mechanical means in suitable waste water treatment plants.			
		In accordance with the required stability the product is n readily biodegradable. The product has not been tested. Th statement has been derived from our suppliers from th structure of the product.			
	Bioaccumulation potential:	Assessment bioaccumulation potential: Discharge into the environment must be avoided Bioaccumulation potential: The product will not be readily bioavailable due to its consistency and insolubility in water Other ecotoxicological advice: No data can be given due to the product is insoluble in water			
	Additional information:				





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13. Disposal Considerations

For uncontaminated material the disposal options include mechanical and chemical recycling or energy recovery. In some countries landfill is also allowed. For contaminated material the options remain the same, although additional evaluation is required. For all countries the disposal methods must be in compliance with national and provincial laws and any municipal or local by-laws. All disposal methods must be in compliance with the EU framework Directives 91/156/EEC, 91/689/EEC and their subsequent adaptations, as implemented in National Laws and Regulations, as well as EU Directives dealing with priority waste streams. Transboundary shipment of wastes must be in compliance with EU Regulation 259/93 and subsequent modifications

14. Transport Information

International Regulations

- ADR
- RID
- ADNR
- IMDG
- IATA/CAO

Not classified as a dangerous good under transport regulations Not classified as a dangerous good under transport regulations Not classified as a dangerous good under transport regulations Not classified as a dangerous good under transport regulations Not classified as a dangerous good under transport regulations

15. Regularity Information

European Inventory of Existing Commercial Chemical Substances (EINECS)

This product is a polymer according to the definition in Directive 92/32/EEC (7th Amendment to Directive 67/548/EEC) and all of its starting materials and international additives are listed in the European Inventory of Existing Commercial Chemical Substances (EINECS) or in compliance with European (EU) chemical inventory requirements

EC Classification and User Label Information

This product is not classified as dangerous according to EC criteria

EU-Labelling:

Symbols:	NA – Not Applicable
Risk and Safety Phrases:	S22: Do not breathe dust

16. Other information

NFPA Ratings:	Health: 1	Flammability:	1 Reactiv	/ity: 0	Special:	NA

METZELER PLASTICS GMBH urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product.

The information herein is provided in good faith and believed to accurate as of the effective date shown above. However, no warranty, express or implied, is given.

Regulatory requirements are subject to change and many differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDS, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have current, please contact us for the most current version.



