SAFETY DATA SHEET



High Density Polyethylene

Version 4.0

Revision Date 2023-12-14

ECTION 1: Identification of the	e su	bstance/mixture and of the company/undertaking
Product information		
Product Name	·	High Density Polyethylene
Company	:	Trademark Plastics Corp
		1200 Morris Turnpike,
		Suite 3005 Short Hills NJ 07078
Emergency telephone:		
Health : 908-925-5900		
Transport : CHEMTREC 800.424.930)0 o	r 908-925-5900
Responsible Department	:	Product Safety and Toxicology Group
E-mail address		info@trademarkplasticscorp.com
Website	:	www.trademarkplasticscorp.com
fluids or tissues. Do not use this material in me human body or contact with i directly from Trademark Plas acknowledges the contempla	edic nter tics ated	
	ng tl	legal affiliates makes no representation, promise, express warrant he suitability of this material for use in implantation in the human ody fluids or tissues.
CTION 2: Hazards identificati	ion	
assification of the substance is product has been classified ir	or i n ac	mixture coordance with the hazard communication standard 29 CFR in all the information as required by the standard.
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Emergency Overview			
Warning Form: Pellets Physical st OSHA Hazards	a te : Solid Color : Opaque Odor : Mild to no odor : Combustible dust		
Classification	: Combustible dust		
Labeling			
Signal Word	: Warning		
Hazard Statements	: May form combustible dust concentrations in air. While this product may not be a combustible dust as sold, further processing or handling may form combustible dust concentration in air.		
Potential Health Effects			
Physical Hazards	 Pellets may cause a slip hazard on hard surfaces. Mechanical processing may form combustible dust concentrations in air and thermal processing at elevated temperatures may generate formaldehyde. 		
Inhalation	 Repeated exposure to dust from this material may cause respiratory irritation. Fumes generated during thermal processing may cause irritation of the upper respiratory tract. 		
Skin	 Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic response. If this material is heated, thermal burns may result from contact Thermal burns may include pain or feeling of heat, discolorations, swelling, and blistering. 		
Eyes	 Contact with the eyes may cause irritation due to the abrasive action. Not expected to cause prolonged or significant eye irritation. Thermal burns may result if heated material contacts eye. 		
Ingestion	: Ingestion of this product is not a likely route of exposure.		
Carcinogenicity:			
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.		
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.		
ACGIH	No ingredient of this product present at levels greater than or		
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6	equal to 0.1% is identified as a carcinogen or potential carcinoger
	by ACGIH.
nati	on on ingredients
nau	
mol	CAS-No. Weight % r 25213-02-9 99 - 100
me	23213-02-9 99 - 100
:	Move to fresh air in case of accidental inhalation of dust or
	fumes from overheating or combustion. If symptoms persist, call a physician.
•	If the molten material gets on skin, quickly cool in water. Seek immediate medical attention. Do not try to peel the solidified
	material from the skin or use solvents or thinners to dissolve it.
:	······································
	of water and seek medical advice.
:	Do not induce vomiting without medical advice.
res	
:	No data available
:	No data available
:	Water. Water mist. Dry chemical. Carbon dioxide (CO2).
	Foam. If possible, water should be applied as a spray from a fogging nozzle since this is a surface burning material. The
	application of high velocity water will spread the burning
	surface layer. Avoid the use of straight streams that may create a dust cloud and the risk of a dust explosion. Use
	extinguishing measures that are appropriate to local
	circumstances and the surrounding environment.
	Risks of ignition followed by flame propagation or secondary
•	explosions can be caused by the accumulation of dust, e.g. on
	floors and ledges.
:	Use personal protective equipment. Wear self-contained
	breathing apparatus for firefighting if necessary.
:	This material will burn although it is not easily ignited.
:	Treat as a solid that can burn. Avoid generating dust; fine dust
	dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion
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gh Density Polyethy	ene
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Hazardous decomposition products	 Normal combustion forms carbon dioxide, water vapor and may produce carbon monoxide, other hydrocarbons and hydrocarbon oxidation products (ketones, aldehydes, organic acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.
TION 6: Accidental release	measures
Personal precautions	: Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.
Environmental precautions	: Do not contaminate surface water. Prevent product from entering drains.
Methods for cleaning up	: Clean up promptly by sweeping or vacuum.
Additional advice	: Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
TION 7: Handling and stora	ge
Handling	
Handling Advice on safe handling	: Use good housekeeping for safe handling of the product. Keep out of water sources and sewers.
-	 Use good housekeeping for safe handling of the product. Keep out of water sources and sewers. Spilled pellets and powders may create a slipping hazard.
-	Keep out of water sources and sewers.
-	 Keep out of water sources and sewers. Spilled pellets and powders may create a slipping hazard. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. At elevated temperatures (>350°F, >177°C), polyethylene can release vapors and gases, which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. These substances may include acetaldehyde, acetone, acetic acid, formic acid, formaldehyde and acrolein. Based on animal data and limited epidemiological evidence, formaldehyde has been listed as a carcinogen. Following all recommendations within this SDS
Advice on safe handling Advice on protection	 Keep out of water sources and sewers. Spilled pellets and powders may create a slipping hazard. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. At elevated temperatures (>350°F, >177°C), polyethylene can release vapors and gases, which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. These substances may include acetaldehyde, acetone, acetic acid, formic acid, formaldehyde and acrolein. Based on animal data and limited epidemiological evidence, formaldehyde has been listed as a carcinogen. Following all recommendations within this SDS should minimize exposure to thermal processing emissions. Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion
Advice on safe handling Advice on protection against fire and explosion	 Keep out of water sources and sewers. Spilled pellets and powders may create a slipping hazard. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. At elevated temperatures (>350°F, >177°C), polyethylene can release vapors and gases, which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. These substances may include acetaldehyde, acetone, acetic acid, formic acid, formaldehyde and acrolein. Based on animal data and limited epidemiological evidence, formaldehyde has been listed as a carcinogen. Following all recommendations within this SDS should minimize exposure to thermal processing emissions. Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion
Advice on safe handling Advice on protection against fire and explosion Storage Requirements for storage	 Keep out of water sources and sewers. Spilled pellets and powders may create a slipping hazard. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. At elevated temperatures (>350°F, >177°C), polyethylene can release vapors and gases, which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. These substances may include acetaldehyde, acetone, acetic acid, formic acid, formaldehyde and acrolein. Based on animal data and limited epidemiological evidence, formaldehyde has been listed as a carcinogen. Following all recommendations within this SDS should minimize exposure to thermal processing emissions. Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

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Advice on common storage : Do not store together with oxidizing and self-igniting products.

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

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Ingredients	Basis	Value	Control parameters	Note
Nuisance Dust	OSHA Z-3	TWA	15 mg/m3	Total dust
	OSHA Z-3	TWA	5 mg/m3	(respirable dust)

Control as Particulate Not Otherwise Classified (PNOC). The ACGIH Guideline* for respirable dust is 3.0 mg/m3 and 10.0 mg/ m3 for total dust. The OSHA PEL for respirable dust is 5.0 mg/m3 and 15.0 mg/m3 for total dust. * This value is for inhalable (total) particulate matter containing no asbestos and < 1.0% crystalline silica.

Engineering measures

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection	No respiratory protection is normally required. If heated material generates vapor or fumes that are not adequately controlled by ventilation, wear an appropriate respirator. Use the following elements for air-purifying respirators: Organic Vapor and Formaldehyde. Use a positive pressure, air- supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection. Dust safety masks are recommended when the dust concentration is excessive.
Eye protection	: Use of safety glasses with side shields for solid handling is good industrial practice. If this material is heated, wear chemical goggles or safety glasses with side shields or a face shield. If there is potential for dust, use chemical goggles.
Skin and body protection	: At ambient temperatures use of clean and protective clothing is good industrial practice. If the material is heated or molten, wear thermally insulated, heat-resistant gloves that are able to withstand the temperature of the molten product. If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not adequate.
SECTION 9: Physical and chem	nical properties
Information on basic phys Appearance	ical and chemical properties
Form Physical state Color Odor Odor Threshold	 Pellets Solid Opaque Mild to no odor No data available
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Safety data		
Flash point	:	No data available
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Autoignition temperature	:	No data available
Thermal decomposition	:	Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing
рН	:	Not applicable
Melting point/range	:	90 - 140 °C (194 - 284 °F)
Freezing point		Not applicable
Initial boiling point and boiling	:	Not applicable
range Vapor pressure	:	Not applicable
Relative density	:	Not applicable
Density	:	0.91 - 0.97 g/cm3
Water solubility	:	Negligible
Partition coefficient: n-	:	No data available
octanol/water Solubility in other solvents	:	No data available
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Relative vapor density	:	Not applicable
Evaporation rate	:	Not applicable
TION 10: Stability and reactiv		

Reactivity	: This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
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Possibility	of hazardous reactions
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Conditions to avoid	: Avoid prolonged storage at elevated temperature.
Materials to avoid	: Avoid contact with strong oxidizing agents.
Thermal decomposition	: Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.
Hazardous decomposition products	 Normal combustion forms carbon dioxide, water vapor and may produce carbon monoxide, other hydrocarbons and hydrocarbon oxidation products (ketones, aldehydes, organic acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.
Other data	: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

High Density Polyethylene Acute oral toxicity	: Presumed Not Toxic
High Density Polyethylene Acute inhalation toxicity	: Presumed Not Toxic
High Density Polyethylene Acute	: Presumed Not Toxic
dermal toxicity	: No skin irritation
High Density Polyethylene Skin irritation	: No eye irritation
High Density Polyethylene Eye irritation	: Did not cause sensitization on laboratory animals.
High Density Polyethylene Sensitization	: This product contains POLYMERIZED OLEFINS. During thermal processing (>350°F, >177°C) polyolefins can release vapors and gases (aldehydes,ketones and organic acids) which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. Generally these irritant effects are all
High Density Polyethylene Further information	transitory. However, prolonged exposure to irritating off-gases can lead to pulmonary edema. Formaldehyde (an aldehyde) has been classified as a carcinogen based on animal data and limited epidemiological evidence.

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SECTION 12: Ecological information

Ecotoxicity effects

Elimination information (persistence and degradability)

Bioaccumulation	: Does not bioaccumulate.
Mobility	: The product is insoluble and floats on water.
Biodegradability	: This material is not expected to be readily biodegradable.
Ecotoxicology Assessment	
Additional ecological information	This material is not expected to be harmful to aquatic organisms., Fish or birds may eat pellets which may obstruct their digestive tracts.

SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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High Density Polyethylene Version 4.0 Revision Date 2023-12-14 ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. **RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF** DANGEROUS GOODS (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code SECTION 15: Regulatory information National legislation SARA 311/312 Hazards Fire Hazard **CERCLA** Reportable : This material does not contain any components with a CERCLA Quantity RQ. SARA 302 Reportable : This material does not contain any components with a SARA 302 RQ. Quantity SARA 302 Threshold : No chemicals in this material are subject to the reporting **Planning Quantity** requirements of SARA Title III, Section 302. SARA 304 Reportable : This material does not contain any components with a section Quantity 304 EHS RQ. SARA 313 Ingredients : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. **Clean Air Act** SDS Number: High Density rev3 9/11

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Potential Class I	oduct neither contains, nor was manufactured with a Class I or I ODS as defined by the U.S. Clean Air Act Section 602 (40CFR bpt. A, App.A + B).
This product does not contain Act Section 12 (40 CFR 61).	any hazardous air pollutants (HAP), as defined by the U.S. Clean A
	n any chemicals listed under the U.S. Clean Air Act Section 112(r) fo on (40 CFR 68.130, Subpart F).
This product does not contain Intermediate or Final VOC's (n any chemicals listed under the U.S. Clean Air Act Section 111 SO(40 CFR 60.489).
US State Regulations	
Pennsylvania Right To Know	: No components are subject to the Pennsylvania Right to Know Act.
New Jersey Right To Know	: No components are subject to the New Jersey Right to Know Act.
California Prop. 65 Ingredients	: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
NFPA Classification	: Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0
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SECTION 16: Other information

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

ACGIH	American Conference of	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZloC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substance
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average

	Substances in China		
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		