



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue:10/10/2015 Revision date:10/10/2015 Supersedes:9/1/2014

Version: 11.2

SECTION 1: Ide	entification of the substa	nce/mixture and of the cor	mpany/undertaking	
I.1. Product i			inpully/undortaiting	
Product form		Mixture		
Product name		TOTAL POLYPROPYLENE, META	LLOCENE, ISOTACTIC	
CAS No		9003-07-0 ; 9010-79-1		
ype of product		Polymers		
ormula		(C3H6)x ; (C3H6)x - (C2H4)y		
synonyms		9003-07-0 : 9010-79-1 : Lumicene		
Product group	: •			
)ther means of ider	ntification :	TOTAL mPP Lumicene		
.2. Relevant	identified uses of the substand	ce or mixture and uses advised a	gainst	
.2.1. Relevant	identified uses			
 /ain use category	: 1	Professional use		
lse of the substance		For more detailled information, see	technical data sheet	
	vised against			
lo additional inform	nation available			
.3. Details of	f the supplier of the safety data	sheet		
	n - <u>www.total.com</u> cy telephone number			
		<ul> <li>for Europe (in local languages): +</li> <li>for Africa and Middle East: + 44 (0</li> <li>+ 86 10 5100 3039</li> <li>for Asia Pacific (Hong-Kong, Sing Japan, Korea, Malaysia, Indonesia,</li> </ul>	0) 1235 239 671• for China: apore, Taiwan, Philippines, Ii	ndia, Vietnam, Sri Lanka,
Country	Organisation/Company	+ 65 3158 1074 Address	Emergency number	Comment
Country	National Poisons Emergency	Address	08 45 46 47	Comment
	number			
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166 (public, 8am - 10pm, 7/7)	
	azards identification			1
	ation of the substance or mixtu			
lassification acco	ording to Regulation (EC) No. 1	272/2008 [CLP]		
lot classified				
.2. Label ele	ments			
•	ig to Regulation (EC) No. 1272/			
hild-resistant faste	•	No No		
actile warning	: .			
.3. Other ha	zards			
	emical, human health and :	To our knowledge, this product doe		
nvironmental effec		accordance with good occupational		
0/4 4/004 5				0 400 4

EN (English)

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Other hazards not contributing to the classification : Fine dust may cause irritation of respiratory system and mucous. Contact with hot material - risk of serious burns. If heated to more than 160°C, the product may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Dust may form explosive mixture in air. Combustible Dust.

SECTION 3: Composition/information on ingredients			
3.1.	Substance		
Not applicable			

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polypropylene	(CAS No) 9003-07-0 / 9010-79-1	> 98	Not classified
Additive		< 2	Not classified

Full text of H-statements: see section 16

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures after inhalation	: Exposure to spray, fumes and vapours produced by heated or burned product: Move to fresh air. Call a doctor.		
First-aid measures after skin contact	<ul> <li>Exposure to splashing of hot product: Treat the affected part with cold water (by spraying or immersion). Do not remove clothing adhering to the skin. In case of severe burns, seek hospita treatment.</li> </ul>		
First-aid measures after eye contact	Immediately rinse with water for a prolonged period while holding the eyelids wide open. In case of irritation caused by fine dust: wash with copious volumes of water, until the irritation disappears.		
First-aid measures after ingestion	: Ingestion during handling is not likely. Do not induce vomiting. Rinse mouth out with water.		
4.2. Most important symptoms and effe	cts, both acute and delayed		
Symptoms/injuries	: Refer to § 11 for more details on effects.		
4.3. Indication of any immediate medica	al attention and special treatment needed		
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: For small fire : Carbon dioxide. Dry powder. Water. For large fire : Foam.		
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.		
5.2. Special hazards arising from the substance or mixture			
Fire hazard	: Combustible.		
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). Aldehydes. Ketones. Acetone. Acetaldehyde. Formaldehyde. Hydrocarbons. acrylaldehyde; acrolein; prop-2-enal.		
5.3. Advice for firefighters			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
Other information	: Notify fire brigade and environmental authorities. Evacuate unnecessary personnel. Use water spray to cool exposed surfaces.		
SECTION 6: Accidental release mea	sures		
6.1. Personal precautions, protective ed	quipment and emergency procedures		
6.1.1. For non-emergency personnel			
Protective equipment	: Do not attempt to take action without suitable protective equipment. Gloves. Safety glasses.		
6.1.2. For emergency responders			

 Protective equipment
 : Use personal protective equipment as required.

 6.2.
 Environmental precautions

 Avoid release to the environment.

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6.3.	Methods and material for containme	ent and cleaning up
For conta	ainment	: If spilled, may cause the floor to be slippery. Sweep up or vacuum up the product. Keep recovered product for subsequent disposal. Do not allow to enter drains or water courses. On water, recover/skim from surface and pour out in disposal container.
Other info	ormation	: Dispose of contaminated material at an authorized site. Notify authorities if product enters sewers or public waters.

#### 6.4. **Reference to other sections**

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Hygiene measures	: Do not eat, drink or smoke when using this product. Keep away from food and drink.			
7.2. Conditions for safe storage, includi	ng any incompatibilities			
Technical measures	<ul> <li>Comply with applicable regulations. Provide local exhaust or general room ventilation. Ground/bond container and receiving equipment. Take precautionary measures against static discharge.</li> </ul>			
Storage conditions	Store at room temperature. Protect from heat and direct sunlight. Store in dry, cool, well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Proper grounding procedures to avoid static electricity should be followed.			
Packaging materials	: Polyethylene. Paper bag. Stainless steel.			
7.3. Specific end use(s)				

Recommended to professional users.

	SECTION 8: Exposure controls/personal protection				
8	8.1. Control parameters				
	TOTAL POLYPROPYLENE, METALLOCENE, ISOTACTIC (9003-07-0 ; 9010-79-1)				
	USA - ACGIH	ACGIH TWA (mg/m³)	10 mg/m <sup>3</sup> inhalable dust particles 3 mg/m <sup>3</sup> respirable dust particles		

8.2. Exposure controls				
Appropriate engineering controls	: Ensure good ventilation of the work station. If handling results in dust generation or high temperatures, local exhaust ventilation should be provided to insure that exposure to dust or decomposition products does not exceed the exposure recommended levels. Safety shower. Eye fountain.			
Personal protective equipment	: Dustproof clothing. Gloves. Safety glasses. Dust formation: dust mask.			
Hand protection	: Protective gloves. Use insulated gloves when handling this material hot			
Eye protection	: Safety glasses			
Skin and body protection	: Wear suitable protective clothing. Safety foot-wear			
Respiratory protection	: Dust/aerosol mask with filter type P1			

Environmental exposure controls

: Avoid release to the environment.

Other information

: Do not eat, drink or smoke during use.

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Freezing poi	nt	: No data available		
Melting poin	t	: 120 - 170 °C		
Relative eva	poration rate (butylacetate=1)	: No data available		
рН		: Not applicable		
Odour thresh	nold	: No data available		
Odour		: Odourless.		
Colour		: Translucent. White.		
Appearance		: Pellet.		
Physical stat	te	: Solid		
9.1. Int	formation on basic physical and	emical properties		
SECTION	9: Physical and chemical	roperties		



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Boiling point	: No data available
Flash point	: ≈ 350 °C
Auto-ignition temperature	: > 380 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 905 kg/m³
Solubility	: Water: < 1 mg/l Insoluble
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.02 kg/m³ ( < 63 μm )
9.2. Other information	

VOC content

: < 0.3 %

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Electrostatic charges may be generated during handling. Take precautionary measures against static discharge during blending and transfer operations.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

## 10.3. Possibility of hazardous reactions

Dust may form explosive mixture in air.

## 10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition. Avoid temperature above 300°C.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Halogens.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

<b>SECTION 11: Toxicological informat</b>	tio	n
11.1. Information on toxicological effects	5	
Acute toxicity	:	Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	:	Not classified (Based on available data, the classification criteria are not met) Heated product causes burns thermal decomposition products are produced at elevated temperatures and these may be irritating pH: Not applicable
Serious eye damage/irritation	:	Not classified (Based on available data, the classification criteria are not met) Fine dust may cause irritation to ocular mucous thermal decomposition products are produced at elevated temperatures and these may be irritating Heated product causes burns pH: Not applicable
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
		dust may cause irritation of respiratory system. If heated to more than 160°C, the product may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath
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Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTI	ON 12: Ecologi	al information
12.1.	Toxicity	
Ecology	- general	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2. Persistence and degradability TOTAL POLYPROPYLENE, METALLOCENE, ISOTACTIC (9003-07-0; 9010-79-1) Persistence and degradability Product persists. Not readily biodegradable. BOD (% of ThOD) Below detection limit 12.3. **Bioaccumulative potential** TOTAL POLYPROPYLENE, METALLOCENE, ISOTACTIC (9003-07-0; 9010-79-1) Bioaccumulative potential Low bioaccumulation potential. 12.4. **Mobility in soil** TOTAL POLYPROPYLENE, METALLOCENE, ISOTACTIC (9003-07-0; 9010-79-1) Ecology - soil low mobility. 12.5. Results of PBT and vPvB assessment TOTAL POLYPROPYLENE, METALLOCENE, ISOTACTIC (9003-07-0; 9010-79-1) Results of PBT assessment Not required 12.6. Other adverse effects No additional information available

SECTION 13: Disposal considerations							
13.1. Waste treatment methods							
Waste treatment methods	: Dispose of in accordance with relevant local regulations. Use only registered transporters. Do not discharge the product into the environment.						
Additional information	: Incinerate with household refuse in a municipal solid waste incinerator plan.						

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID				
14.1. UN Number								
Not regulated for transport								
14.2. UN proper shipping name								
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable				
14.3. Transport hazard class(es)								
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable				
14.4. Packing Group								
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable				
14.5. Environmental hazards								
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the				
environment : No	environment : No	environment : No	environment : No	environment : No				
	Marine Pollutant : No							
No supplementary information available								

## 14.6. Special precautions for user

#### - Overland transport

No data available

### - Transport by sea (IMDG)

No data available

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- Air transport (IATA)

No data available

#### - Inland waterway transport

No data available

### - Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

### Not applicable

## **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : < 0.3 %

#### 15.1.2. National regulations

These registration entries are for polymers only. For additives, please refer to TOTAL who will provide the necessary certification Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Complies the United States TSCA (Toxic Substances Control Act) inventory

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)

Listed on the China Inventory of Existing Chemical Substances (IECSC)

Listed on the Canadian DSL (Domestic Substances List)

Listed on NZIOC (New Zealand Inventory of Chemicals)

### 15.2. Chemical safety assessment

The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

### **SECTION 16: Other information**

Training advice

: Training staff on good practice. Manipulations are to be done only by qualified and authorised persons. Use good personal hygiene practices.

Other information

: Use good personal hygiene practices.

SDS EU (REACH Annex II)

This information applies to the PRODUCT AS SUCH and conforming to specifications of TOTAL.

In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. However the revision of some data is in progress.

Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes.

purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive.

It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product. (usage, storage, cleaning of containers, other processes)

It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product. (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.