

<b>SAFETY DATA SHEET</b>	Page 1 of 8
	Issued on: 1 st June 2017
Trade name: CC MASTER PE 90225 P LL	Revised on:
	Version: 1

1. Identification of the substance/mixture and of the company/undertaking			
1.1.	Product identifier (Product registration number):	CC Master PE 90225 P LL	Identification no.: P122785
1.2.	Relevant identified uses of the substance/mixture and uses advised against:	Film, extrusion, moulding...	
1.3.	Details of the supplier of the safety data sheet (manufacturer, importer, only representative, downstream user or distributor):		
1.3.1.	Supplier name:	CINKARNA CELJE, d.d.	Division: Kemija Mozirje
1.3.2.	Supplier address and phone:	Kidričeva 26, 3001 CELJE, SLOVENIJA, +386 3 427 60 00	
1.3.3.	E-Mail (competent person):	Marta.munda@cinkarna.si	
1.4.	Emergency phone number:	In the case of health hazards should consult your doctor, in the case of life-threatening, call the phone number 112 Additional information is available: Weekdays from 7-15 am +386 3 837 0900 +386 3 837 0908	

2. Hazards identification		
2.1.	Classification of substance or mixture: (Regulation (EC) No 1272/2008)	CC MASTER PE 90225 P LL is not dangerous or hazardous material.
2.2.	Label elements:	None
2.3.	Other hazards:	None.

3. Composition/information on ingredients	
3.1. /3.2	Substances/ mixture: Pigment concentrates in linear low density polyethylene.

Chemical name	CAS No. EC No. Index No.	REACH Registration No.	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	
				Hazard statements (H)	Hazard class and hazard category
/	/	/	/	/	

4. First aid measures		
4.1.	Description of first aid measures:	Immediately remove any clothing soiled by the product.
	Inhalation:	When inhaled remove to fresh air and seek medical aid
	Skin contact:	Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

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	Eyes/mycosis contact:	Rinse eyes under running water for several minutes. Keep the eyes opened. If symptoms persist, seek medical advice.
	Ingestion:	Rinse out the mouth and then drink plenty of water. If symptoms persist, call for medical advice.
4.2	<b>Most important symptoms and effects, acute and delayed:</b>	Not known.
4.3.	<b>Indication of any immediate medical attention and special treatment needed:</b>	Toasted part of body cooling with cold water.

## 5. Firefighting measures

5.1.	<b>Extinguishing media</b>	
	Appropriate media:	CO <sub>2</sub> , foam, water.
	Inappropriate media:	Strong water jet
5.2.	<b>Specific hazards arising from the substance or mixture:</b>	In case of fires, hazardous combustion gas is formed: CO and CO <sub>2</sub>
5.3.	<b>Advice for firefighters:</b>	Wear self-contained respiratory protective device. Wear fully protective clothing.

## 6. Accidental release measures

6.1.	<b>Personal precautions protective equipment and emergency procedures</b>	Usual precautions when handling the material.
6.1.1.	For non-emergency persons:	Prevent the transfer of material into surface water drainage system and underground.
6.1.2.	For emergency responders:	No requirements.
6.2.	<b>Environmental precautions:</b>	Prevent the transfer of material into sewers and watercourses.
6.3.	<b>Methods and material for containment and cleaning:</b>	
6.3.1.	Appropriate spillage retaining techniques (fencing, covering drains, retaining procedures):	Collect spilled material in an appropriated container for disposal. Deposit it based on regulation.
6.3.2.	Appropriate cleaning procedures	
	Neutralization techniques	Not known.
	Decontamination techniques	Not known.
	Absorbent materials	Not known.
	Cleaning techniques	Use appropriate tools to put the spilled solid in an appropriate disposal or recovery container. Reuse or recycle where possible.
	Sucking techniques	Central vacuuming.
	Required equipment for retaining /cleaning	Soil, sand, shovel.
6.3.3.	Inappropriate cleaning or retaining techniques	Do not rinse with water.
6.4.	<b>Reference to other sections:</b>	For further disposal measures see chapter 13.

## 7. Handling and storage

7.1.	<b>Precautions for safe handling</b>	
7.1.1.	Recommendations shall be specified to:	
	Safe handing of substance or mixture:	Handle in contained and properly designed equipment system. Use with adequate ventilation. Avoid ingestion and inhalation. Keep away from uncontrolled heat and incompatible materials.

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	Prevent handling of incompatible substances or mixtures:	Lay attention to the warnings on the label.
	Reduce the release of the substance or mixture to the environment:	Packaging should be tightly closed and upright to prevent leakage.
7.1.2.	General working hygiene (prohibited eating, drinking and smoking within working area; washing hands ...)	Immediately remove any clothing soiled by the product. Avoid contact with skin and eyes. During processing and handling of the product, don't eat and drink. Avoid inhalation of dust.
7.2.	<b>Conditions for safe storage, including any incompatibilities</b>	
	Management of risk associated with:	Ground all material handling and transfer equipment to dissipate built-up of static electricity.
	- explosive atmospheres:	Every effort should be made to prevent the accumulation of powders or fine dusts around material handling systems. Accumulated powders or fine dusts may form explosive air-dust mixture.
	- corrosive substances:	Keep away from food, drink and the strong oxidizers.
	- incompatible substances or mixtures:	The premises must be adequately ventilated.
	- evaporation substances:	Keep from sources of ignition, heat and open flame.
	- potential ignition sources:	Precautions against electrostatic electricity, the use of grounded equipment.
	How to control the effects of	
	- weather conditions:	Store in a dry place.
	- ambient pressure:	There are no requirements.
	- temperature:	Do not store above 25 °C.
	- sunlight:	Keep away from heat and direct sunlight.
	- humidity:	Store the product in dry and cold place. Keep away from heat, direct sunlight and moisture. Keep in well-closed packaging.
	- vibrations:	There are no requirements.
	Securing integrity of substance or mixture by use of:	
	- stabilisers:	There are no requirements.
	- antioxidants:	There are no requirements.
	Other advice including:	
	- ventilation requirements;	Facilities must be adequately ventilated.
	- specific designs for storage rooms or vessels (including retention walls and ventilation):	No special measures required.
	- quantity limitations regarding storage conditions:	No special measures required.
	- packaging compatibility:	No special measures required.
7.3.	<b>Specific end use(s):</b>	Colouring of polyethylene products.
<b>8. Exposure control/ personal protection</b>		
8.1.	<b>Control parameters</b>	
8.1.1.	Limit values (MV):	/
	DNEL	Titanium dioxide: 10 mg/m <sup>3</sup>

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	PNEC	<p>Titanium dioxide:</p> <p>Freshwater: &gt; 0,127 mg/l</p> <p>Freshwater deposits: &gt; 1000 mg/kg</p> <p>Sea water: &gt; 0,62 mg/l</p> <p>Sea water deposits: &gt; 100 mg/kg</p> <p>Soil: &gt; 100 mg/kg</p> <p>Wastewater treatment plant: &gt; 100 mg/kg</p>
<b>8.2.</b>	<b>Exposure control</b>	
8.2.1.	Appropriate engineering controls:	Ventilation on the work place.
8.2.2.	Personal protective equipment:	
	- respiratory protection:	If engineering controls and ventilation are not sufficient to prevent built-up of aerosols, vapours or dusts, appropriate NIOSH approved air-purifying respirators or self-contained breathing apparatus appropriate for exposure potential should be used. Air-supplied breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators. Dust musk, SIST EN 143:2001/AC:2005
	- skin protection:	Protective clothing, SIST EN ISO 13688:2013
	- hand protection:	Wear thermal insulating gloves whenever molten material is present. SIST EN 374-3:2003/AC:2006.
	- eye/face protection:	Safety goggles, SIST EN 166:2002
	- heat radiation protection:	Gloves, SIST EN 407:2004
	Other:	Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.
8.2.3.	Environment exposure control:	Do not allow product to reach ground water, water bodies or sewage system.

## 9. Physical and chemical properties

<b>9.1.</b>	<b>Information on basic physical and chemical properties:</b>	
	- appearance	Solid, pellets
	- color	White
	- odor:	Odorless
	Upper/lower flammability or explosive limit:	N.a.
	Relative density:	1,80 – 1,90 g/m <sup>3</sup> at 20 °C
	Solubility:	Insoluble in water
<b>9.2.</b>	<b>Other information:</b>	N.a.

## 10. Stability and reactivity

<b>10.1.</b>	<b>Reactivity:</b>	Stable and not reactive.
<b>10.2.</b>	<b>Chemical stability:</b>	Under normal conditions the products is stable.
<b>10.3.</b>	<b>Possible hazardous reactions:</b>	This product is stable under normal use conditions for shock, vibration, pressure or temperature.

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<b>10.4.</b>	<b>Conditions to avoid:</b>	Avoid contact with flames or sparks. Do not heat temperatures exceeding 350 °C.
<b>10.5.</b>	<b>Incompatible materials:</b>	Acid, alkali and oxidants.
<b>10.6.</b>	<b>Hazardous decomposition products:</b>	Dust may form an explosive mixture with air, ignited by sparks or source of ignition.

## 11. Toxicological data

<b>11.1.</b>	<b>Information on toxicological effects</b>	
	- Acute toxicity:	<u>Titanium dioxide:</u> Acute oral toxicity: LD 50/rat > 5000 mg/kg Acute oral toxicity by inhalation: LD 50/ 4h rat > 6,82 mg/l <u>Polyethylene wax:</u> Acute oral toxicity: LD 50/rat > 2000 mg/kg <u>Calcium salt, octadecanoic acid:</u> LD50 oral/rat>10 g/kg
	- skin corrosion/irritation:	N.a.
	- Serious eye damage/irritation:	N.a.
	- respiratory or skin sensitisation:	May cause allergic reaction
	- germ cell mutagenicity:	N.a.
	- Carcinogenicity:	In February 2006 the IARC came to the conclusion that there are not enough evidence that titanium dioxide has carcinogenic effects in humans. However, based on experiments in rats (inhalation), the IARC notes that there is enough proof for carcinogenicity in the studied animals (rats). General conclusion of the IARC is that Titanium dioxide is "possibly carcinogen" to humans (class 2B). This conclusion is based on the IARC rules that require the identification of carcinogenicity be made by confirming the results regarding the formation of tumours and performing two or more independent researches in one living species in different laboratories or on separate occasions by various methods.
	- Toxicity for reproduction:	It is not toxic for reproduction.
	- STOT – single exposure:	N.a.
	- STOT – repeated exposure:	N.a.
	- Inhalation hazards:	N.a.

## 12. Ecological information

<b>12.1.</b>	<b>Toxicity:</b>	<u>Titanium dioxide:</u> Toxicity for fish: LC <sub>50</sub> / 96 h / <i>Pimephales promelas</i> (fathead minnow): > 1000 mg/l Toxicity for aquatic organisms: EC <sub>50</sub> / 72 h / <i>Pseudokirchneriella subcapitata</i> (green algae): 61 mg/l Toxicity for aquatic invertebrates: EC <sub>50</sub> / 48 h / <i>Daphnia magna</i> (water flea): > 1000 mg/l
<b>12.2.</b>	<b>Persistence and degradability:</b>	The product is bio non-degradable and insoluble in water.
<b>12.3.</b>	<b>Accumulation in organisms:</b>	The product does not accumulate in organisms.
<b>12.4.</b>	<b>Mobility in soil:</b>	N.a.
<b>12.5.</b>	<b>PBT and vPvB assessment results:</b>	Unclassified substance PBT/ Unclassified substance vPvB.
<b>12.6.</b>	<b>Other adversative effects:</b>	Do not allow product to reach ground water, water bodies or sewage system.

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<b>13. Disposal considerations</b>		
13.1.	<b>Waste treatment methods:</b>	Remove in accordance with local regulations Classification No. 07 02 13.....waste plastic
<b>14. Transport information</b>		
	<b>ADR, RID, AND, IMDG, ICAO-TI/IATA-DGR</b>	/
14.1.	<b>UN number:</b>	/
14.2.	<b>UN proper shipping (technical name if required):</b>	/
14.3.	<b>Transport hazard class:</b>	/
14.4.	<b>Packaging group:</b>	/
14.5.	<b>Hazard to environment:</b>	/
14.6.	<b>Special precautions for user:</b>	/
14.7.	<b>Bulk transport by MARPOL 73/78 Annex II and IBC Code:</b>	/
14.8.	<b>Tunnel code:</b>	/
14.9.	<b>Classification code:</b>	/
14.10.	<b>Hazard label:</b>	/
<b>15. Regulatory information</b>		
15.1.	<b>Rules and regulations regarding health, safety, and environmental hazard specific to the substance or mixture:</b>	Law of chemicals and regulation of classification, packaging and labelling of hazard material and preparation.
15.2.	<b>Chemical safety assessment:</b>	Chemical safety assessment was not made.
<b>16. Other information</b>		
	Amendments made in the revised edition:	/
	List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements. Write out the full text of any statement which are not written out in full under Sections 2 to 15:	
	Training of personnel:	In accordance with technical instruction.
	Sources:	<p>The data given here are based on current knowledge and experience. The purpose of this Material Safety Data Sheet is to describe the product in terms of its safety requirements. The data do not signify any warranty with regard to the products properties.</p> <ul style="list-style-type: none"> <li>Chemicals Act (Zkem-UPB1) Official Gazette of RS No. 110/2003, as amended (Official Gazette of RS, No. 16/2008 9/2011).</li> <li>Act on occupational safety and health (ZVZD-1) Official Gazette of RS, No. 43/2011.</li> <li>Rules on the protection of workers from risks related to chemical agents at work (Official Gazette of RS, No. 100/2001 , as amended (Official Gazette of RS, No. 39/2005 , 53/2007 , 102/2010).</li> <li>Regulation on the classification, packaging and labeling of</li> </ul>

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		<p>dangerous preparations (Official Gazette of RS No. 67/2005 , as amended ( Official Gazette of RS, no. 137/2006 , 70/2008 and 88/2008 , 126/2008, 81/2009 ).</p> <ul style="list-style-type: none"> <li>• Rules on reporting (Official Gazette of RS, No. 35 /2011 ), as amended ( Official Gazette RS, No. 49/2013).</li> <li>• Regulation on the management of packaging and packaging waste (Official Gazette RS, no. 84/2006).</li> <li>• Ordinance on Waste Management (Official Gazette of RS, No. 34/2008).</li> <li>• Regulation (EC ) no. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals ( REACH ) , establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No . 793/93 and Commission Regulation (EC ) no. 1488/94 and Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EEC and 2000/21/EC, as amended (OJ EU No. 453 /2010, 348/2013 ).</li> <li>• Regulation (EC ) no. 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC, 1999/45 / EC and amending Regulation ( EC) no. 1907/2006, as amended ( Official Gazette of RS, No. 790/2009 286/ 2011, 618/2012 , 0487/2013 , 758/2013 ).</li> <li>• Publication of titles and references of harmonised standards under Union harmonisation legislation ( 2013/C 186/01 ).</li> </ul>
	<p>A key or legend to abbreviation and acronyms used in the safety data sheet:</p>	<p>ADI - Acceptable Daily Intake</p> <p>ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</p> <p>CLP - Regulation (EC) No 1272/2008 on classification, packaging and labelling of substances and mixtures</p> <p>PNEC - Predicted No Effect Concentration</p> <p>DNEL - Derived No Effect Level</p> <p>STOT - Specific target organ toxicity</p> <p>ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>CAS - Chemical Abstract Services</p> <p>EINECS - European Inventory of Existing Commercial Chemical Substances</p> <p>GHS - Globally Harmonised System of Classification and Labelling of Chemicals</p> <p>REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals</p> <p>ICAO-TI - International Civil Aviation Organisation - Technical Instructions</p> <p>IMDG - Code International Maritime Dangerous Goods Code</p> <p>IATA - International Air Transport Association</p>

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		<p>ISO - International Organization For Standardization</p> <p>AOEL - Acceptable Operator Exposure Level</p> <p>NOAEL No - Observed Adverse Effect Level</p> <p>NOEC No - Observed Effect Concentration</p> <p>NOEL No - Observed Effect Leve</p> <p>OEL- Occupational Exposure Limit</p> <p>PBT - Persistent, Bioaccumulative, Toxic</p> <p>PNEC - Predicted No Effect Concentration</p> <p>RID - Regulations concerning the International Carriage of Dangerous Goods by Rail</p> <p>vPvB - Very Persistent, Very Bioaccumulative</p> <p>N.a. - Not applicable</p> <p>LC<sub>50</sub> - Lethal Concentration in the air, killing 50% of the test organisms (Lethal Concentration)</p> <p>LD<sub>50</sub> - lethal dose at which 50% die of test organisms</p> <p>IC<sub>50</sub> - inhibitory concentration at which 50% inhibition of the test organisms (Inhibition Concentration)</p> <p>EC<sub>50</sub> - concentration at which it dies / die 50% of test organisms</p> <p>M - Factor for the concentracion of substance hazardous to the aquatic</p> <p>TWA - Permissible limit</p> <p>MV - Limit</p> <p>KTV - Short term</p> <p>BAT - Biological limit value</p>
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Data specified above are based on research and experience of the supplier at the time of compiling the present MSDS. The supplier may not assume responsibility in case the buyer/user should fail to use the product in accordance with the relevant suggestions and recommendations. No information contained in the present SMDS may release the buyer/user from liability to strictly follow any legal requirements regarding his business activities.