

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 15.04.2016

version nr: 1

Revision: 15.04.2016

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

· **1.1 Product identifier**

· Trade name: **RADILON® D X 16088 NT**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU12 Manufacture of plastics products, including compounding and conversion

· **Product category** PC32 Polymer preparations and compounds

· **Process category**

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC14 Production of preparations or articles by tableting, compression, extrusion, pelletisation

· **Environmental release category**

ERC11a Wide dispersive indoor use of long-life articles and materials with low release

· **Article category** AC13 Plastic articles

· **Application of the substance / the mixture**

Production of items by injection moulding or comparable processes

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Radicinovacips S.p.A.

Via Provinciale 1331

24020 Villa d'Ogna (Bg)

Italy

· **Further information obtainable from:** Laboratory of Research & Development and Quality Control

· **1.4 Emergency telephone number:**

During regular office hours phone +39.0346.22453

E-mail: msds.plastics@radicigroup.com

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

The product is not classified according to the CLP regulation.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Description:**

Unreinforced polyamide 6.10

Base used: Polyamide 6.10

Synonyms: Polyamide 6.10- Nylon 6.10

CAS number: 9008-66-6

Poly(hexamethylene sebacamide)

Chemical formula:  $-[NH-(CH_2)_6-NH-CO-(CH_2)_8-CO]_n$

· **Dangerous components:** Void

· **Additional information:** Refer to Section 16 for the risk phrases concerning the above-mentioned hazards

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:** No special measures required

· **After inhalation:** Product is in granular form and thus inhalation is very unlikely

· **After skin contact:** Generally the product does not irritate the skin

· **After eye contact:** Keeping the eyelids wide-open, flush eyes for several minutes under running water

· **After swallowing:**

The product is not acutely toxic. In case of ingestion of a considerable quantity of material, seek medical assistance

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam

Use fire extinguishing methods appropriate to surrounding area

· **5.2 Special hazards arising from the substance or mixture** No dangerous decomposition products known.

· **5.3 Advice for firefighters**

· **Protective equipment:** No special measures required

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Do not drop/scatter product granules on warehouse or workplace floors to prevent the possibility of slip and fall accidents

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water

· **6.3 Methods and material for containment and cleaning up:** No special measures required.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment

See Section 13 for disposal information.

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### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

*Do not inhale the air trapped in the packaging*

*Do not drop/scatter product granules on warehouse or workplace floors to prevent the possibility of slip and fall accidents*

*In processing coloured materials, particular care must be exercised not to exceed recommended processing temperatures, as thermal decomposition may generate harmful products*

*The handling of product at the molten state (see Section 9) requires the use of suitable gloves to prevent burns*

*Do not ingest product granules: during digestion, gastric juices could hydrolyze the material releasing substances harmful in human health*

*Ensure that there are suitable exhaust systems in processing machine areas*

· **Information about fire - and explosion protection:**

*The product is not explosive (see Section 9). In case of fire see Section 5*

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

*Do not stack up packages too high without proper support to prevent the pile from collapsing*

*Keep the product away from heat sources since it is combustible*

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

*Store in a dry place*

*Keep the product dry to allow for optimal processing*

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see Section 7

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:** Not required.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

*Product in solid state: follow the ordinary precautionary measures for non-hazardous chemicals*

*Product in molten state: avoid skin contact with the molten material and do not breathe product vapours*

· **Respiratory protection:** Not required.

· **Protection of hands:**

*Protective gloves are not required for handling the product in a solid state*

*The use of appropriate protective gloves is required for handling the product in its molten state (see Section 9) to avoid burns*

· **Material of gloves**

*Rubber gloves*

*Leather gloves*

*Synthetic rubber gloves*

· **Penetration time of glove material** Not available

· **Eye protection:** Safety glasses

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### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Chips
· <b>Colour:</b>	Off-white
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

· <b>Melting point/Melting range:</b>	216 ± 5 °C
· <b>Boiling point/Boiling range:</b>	Undetermined.

· **Flash point:** > 400 °C

· **Flammability (solid, gaseous):** Not determined.

· **Ignition temperature:**

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not self-igniting

· **Danger of explosion:** Product is not explosive

· **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapour pressure:** Not applicable.

· <b>Density at 20 °C:</b>	1.003 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.

· **Solubility in / Miscibility with water:** Insoluble

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· <b>Dynamic:</b>	Not applicable.
· <b>Kinematic:</b>	Not applicable.

· **Solvent content:**

· <b>Organic solvents:</b>	0.0 %
· <b>VOC (EC)</b>	0.00 %

· **Solids content:** 100.0 %

· **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.3 Possibility of hazardous reactions**

Reacts with strong acids  
Reacts with oxidizing agents

· **10.4 Conditions to avoid** No further relevant information available.

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- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritation could be caused by dust formed during product handling
- **Serious eye damage/irritation** Irritation could be caused by dust formed during product handling
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Product is not biodegradable
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Generally not hazardous for water  
Negative ecological effects are, according to the current state of knowledge, not expected.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
This product can be recycled and used for other appropriate applications  
This product is not considered hazardous waste. Eliminate the waste according to local rules and regulations
- **Uncleaned packaging:**
- **Recommendation:** Not hazardous according to the above regulations

### SECTION 14: Transport information

- |                                       |      |
|---------------------------------------|------|
| · <b>14.1 UN-Number</b>               |      |
| · <b>ADR, ADN, IMDG, IATA</b>         | Void |
| · <b>14.2 UN proper shipping name</b> |      |
| · <b>ADR, ADN, IMDG, IATA</b>         | Void |

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· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above regulations
· <b>UN "Model Regulation":</b>	Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product characteristics and shall not establish a legally valid contractual relationship*

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