The preparation mentioned in this document does not legally require an SDS. This document was prepared according article 32: Duty to communicate information down the supply chain for substances on their own or in preparations for which a safety data sheet is not required.

1. Identification of the preparation and manufacturer

1.1) Identification of the preparation	**ISONYL**
1.2) Use of the preparation	The list of products that are covered by this safety information data sheet can be found in the **appendix on the last page**. USE: Synthetic polymer based on polyamide with dispersed fillers, additives and colourants, used only in the industrial activities of injection molding and extrusion. Sector of use: SU 12 Manufacture of plastics products, including compounding and conversion. Product category: PC 32 Polymer preparations and compounds. Process category: PROC 14 Production of preparations or articles by tabletting, compression, extrusion, pelletisation. Uses advised against : No other uses are known or allowed for this product.
1.3) Company identification	SIRMAX SpA. - Registerd office: via Fabbrega 18 Isola Vicentina (VI) Manufacturer: • SIRMAX SpA - via Dell'Artigianato, 42 Cittadella (PD) – IT • SIRMAX SpA - Via Decime, 10 Tombolo (PD) - IT • Sirmax Polska Sp. z o.o.- ul. Holenderska 8, 99-300 Kutno – PL Safety data sheet emission: Quality Office: via Dell'Artigianato, 42 Cittadella PD, tel. o.h. 049 9441111 - fax 049 9441112 - mfabris@sirmax.it
1.4) Emergency telephone	Quality Office: via dell'artigianato, 42 Cittadella PD, tel. 049 9441183 Emergency: 112

2) Hazards identification

2.1) Classification of preparation	The preparation does not meet the criteria for classification as hazardous in accordance with Regulation (EC) No 1272/2008.
2.2) Label elements 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]	None required P281 Use personal protective equipment as required. P501 Dispose of contents/container in accordance with local regulation.
2.2.2. Contains:	
2.2.3. Special provisions:	Special hazards are not known or expected.
2.3) Other hazards	The molten product adheres to the skin and causes burns.. High risk of slipping due to leakage/spillage of product.. Possible production of electrostatic chargings when used. The working steams can irritate the eyes as well as the respiratory tract.

3) Composition/Data on components

3.1) Substances ***(for mixtures see 3.2)***	
3.2) Mixtures	Preparation of the following components: • PA6 (polycaprolactam) and/or PA66 • Disperse additives. • Mineral filler and/or glass fiber only for the filled/reinforced grades. • Colourants and pigments, only for coloured versions.

4) First aid measures

4.1) First-aid measures	General measures :At room temperature the product is neither an irritant nor gives off hazardous vapours. The measures listed below apply to critical situations (Fire, incorrect process conditions). Skin contact : After contact with molten product, cool rapidly with cold water. Do not attempt to remove molten product from skin because skin will tear easily. Immediately obtain professional medical help! Eye contact : Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. If irritation persist, seek professional medical attention. Inhalation : Remove patient to fresh air-move out of dangerous area. Obtain professional

	medical help. Victim should rest in a warm place. If breathing is irregular or respiratory arrest provide artificial respiration. Ingestion: In case of doubt or if feeling unwell seek medical help.
4.2) Symptoms	Skin contact : none Eye contact: Vapours and gases of the product, generated at high temperature can have an irritant effect to the eyes. Inhalation: Vapours and gases of the product, generated at high temperature can have an irritant effect to breathing apparatus. Ingestion: none
4.3) Indication of any immediate medical attention and special treatment needed: none	
5) Fire fighting measures	
5.1) Extinguishing media	Suitable extinguishing media: Carbon dioxide. Dry chemical powder. Alcohol or polymer foam. Unsuitable extinguishing media : -
5.2) Special hazards arising from the mixture	In case of fire it can release : water (H2O), carbon dioxide (CO2), and when lacking oxygen (O2), carbon monoxide (CO). The products of the burning are dangerous.
5.3) Advice for firefighters	Protective actions: In case of fire or heating do not breathe fumes/vapours. Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective clothing for fire-fighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137) .
6) Accidental release measures	
6.1) Personal precautions, protective equipment and emergency procedures	6.1.1. For non-emergency personnel - Protective equipment: Use personal protective equipment (Section 8). Emergency procedures: Ensure adequate ventilation. Keep away from sources of ignition. 6.1.2. For emergency responders: High risk of slipping due to leakage/spillage of product
6.2) Environmental precautions	Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental entry into water or ground occurs, inform responsible authorities.
6.3) Methods and material for containment and cleaning up	6.3.1. For containment: - 6.3.2. For cleaning up: Take up mechanically and collect in suitable container and dispose according to current regulations. 6.3.3. Other information: -
6.4) Reference to other sections	See also sections 8 and 13.
7) Handling and storage	
7.1) Precautions for safe handling	7.1.1. Protective measures Measures to prevent fire: Ensure adequate ventilation. Take precautionary measures against explosion risks, as all types of polymers may develop dust during transporting or grinding of granules. Take precautionary measures against static discharges. Ensure adequate equipment grounding. Measures to prevent aerosol and dust generation: Prevent dusting. Measures to protect the environment: - 7.1.2. Advice on general occupational hygiene No special measures required if the manipulation takes place at room temperature. Avoid spilling/spreading the product as it may cause accidental falls. Use good personal hygiene practices-wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe dust. When bringing the material to processing temperatures gases might develop, forming: propylene hydrocarbon substances with low molecular weight and their oxidation products solvent residues traces of formaldehyde and acrylaldehyde. Traces of acids (Formic acid, acetic acid). Provide appropriate ventilation for such processing conditions. Experimental tests under different application conditions showed maximum limits of formaldehyde, acrylaldehide, formic acid, and acetic acid being significantly below TLV- values. Do not overpass the suggested process conditions (temperatures), since the released gases are dangerous.
7.2) Conditions	7.2.1. Technical measures and storage conditions

for safe storage, including any incompatibilities	Keep in cool and well ventilated area. Keep in a dry place. Take precautionary measures against static discharges. Ground equipment electrically. Electric safety equipment. Keep away from sources of ignition - No smoking. Protect against heat and direct sunlight. Keep away from food, drink and animal feedingstuffs Storage in a warm place (>60°C) can cause softening of the granules and instability of the bags. Do not stack the big bags or the octabins or the platforms. 7.2.2. Packaging materials Store the product in bags, autosilos, container, or large cartons. 7.2.3. Requirements for storage rooms and vessels: - 7.2.4. Storage class: - 7.2.5. Further information on storage conditions: -
7.3) Specific end use(s)	Recommendations: - Industrial sector specific solutions: -

8) Exposure controls and personal protection

8.1) Control parameters	8.1.1. Occupational Exposure limit values 8.1.2. Information on monitoring procedures: BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. 8.1.3. DNEL values: No information 8.1.4. PNEC values: No information
8.2) Exposure controls	8.2.1. Appropriate engineering control Substance/mixture related measures to prevent exposure during identified uses: Use good personal hygiene practices-wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid the formations–when purging the press–of great agglomerates of molten material. Since the product has a low thermal conductivity, it solidifies quite quickly externally, while the inner part remains molten, at high temperature for prolonged times. This could be the cause for thermal degradation. Always wait for the complete solidification and cooling of the material coming from the press purges before handling them. Solidification in air is slow. Do not underestimate that the inner part stay molten for long times, so do not crash the purged agglomerates. Molten product spill is possible. Technical measures to prevent exposure: Provide good ventilation and local exhaust in the area with increased concentration. Provide system for collecting the vapours which are created during the working process. 8.2.2. Personal protective equipment Eye and face protection: No requirements under normal use conditions. Safety glasses recommended during refilling Tight fitting protective goggles (EN 166). Hand protection: Thermoinsulating gloves (EN 407). Skin protection: Cotton protective clothing (EN ISO 13688) and shoes that cover the entire foot (EN ISO 20345). Respiratory protection: Molten product: In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2. Thermal hazards: - 8.2.3. Environmental exposure controls: -

9) Physical and chemical properties

9.1) General information	
Form:	solid, granulate.
Colour:	as specified in the product designation.
Odour:	odourless
9.2) Relevant information for health, safety and environment:	
pH	Non applicable
Melting point	220-270 °C
Boiling point	Non applicable
Flash point	Not applicable
Explosion danger	Not explosive
Oxidising properties:	None

Density at 23°C:	from 0,90 to 1,55 Kg/dm^3
Solubility:	Insoluble in water, soluble or partially soluble in boiling, aromatic chlorinated solvents
Vapour pressure	Negligible
9.3) Further data:	
Ignition temperature:	> 490 ° C
Decomposition temperature:	> 300 ° C

10) Stability and reactivity

10.1. Reactivity	The product is stable at normal handling, storage and process conditions (require to SIRMAX the process data guidelines). Decomposition begins at temperatures higher than 300°C, with the release of decomposition gases and products.
10.2. Chemical stability	Product is stable under normal conditions according to handling and storage.
10.3. Possibility of hazardous reactions	-
10.4. Conditions to avoid	The product is stable at normal handling, storage and process conditions. Decomposition begins at temperatures higher than 300°C.
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	In case of fire/explosion vapours dangerous for health are spread.

11) Toxicological information

11.1. Information on toxicological effects	11.1.1. Acute toxicity: No information 11.1.2. Skin corrosion/irritation, serious eye damage/irritation, aspiration hazard Additional information. The product is not classified as irritating to skin and eyes. Vapours and gases of the product, generated at high temperature can have an irritant effect to the eyes and the breathing apparatus. 11.1.3. Respiratory or skin sensitisation: Not classified as sensitizing. 11.1.4. Carcinogenicity, Mutagenicity, Reproductive toxicity Carcinogenicity: No information (Germ cell) mutagenicity: No information Reproductive toxicity: No information Summary of evaluation of the CMR properties: No information 11.1.5. STOT-single and repeated exposure: No information

12) Ecological considerations

12.1. Toxicity	12.1.1. Acute (short-term) toxicity: No information 12.1.2. Chronic (long-term) toxicity: No information
12.2. Persistence and degradability	12.2. Persistence and degradability 12.2.1. Abiotic degradation, physical- and photo-chemical elimination: No information 12.2.2. Biodegradation: No information
12.3. Bioaccumulative potential	12.3.1. Partition coefficient n-octanol/water (log Kow): No information 12.3.2. Bioconcentration factor (BCF): No information
12.4. Mobility	12.4.1. Known or predicted distribution to environmental compartments: No information 12.4.2. Surface tension: No information 12.4.3. Adsorption/Desorption: No information
12.5. Results of PBT and vPvB assessment	No evaluation.
12.6. Other adverse effects	No information
12.7. Additional information	The product is not toxic, but small particles can have physical effects in acquatic and soil organisms. Not biodegradable. No bioaccumulation potential. Prevent contamination.

13) Disposal considerations

13.1. Waste treatment methods	13.1.1. Product / Packaging disposal Waste chemical: Disposal must be made according to official regulations: to leave it to authorized collector/remover/transformer of hazardous waste. Suitable for incineration in

	approved incinerators or appropriate, authorized disposal plants. Packaging: Completely emptied container dispose according to regulations. 13.1.2. Waste treatment-relevant information: - 13.1.3. Sewage disposal-relevant information: - 13.1.4. Other disposal recommendations:-

14) Transport information

14.1. UN number	-
14.2. UN proper shipping name	Not dangerous according to ADR.
14.3. Transport hazard class(es)	-
14.4. Packing group	-
14.5. Environmental hazards	NO
14.6. Special precautions for user	-
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	-

15) Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) - Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures 15.1.1. Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline) not applicable
15.2. Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this mixture by the supplier.

16) Other information

Indication of recent/last changes: document revised according CLP

Key literature references and sources for data: internal data from the company, technical literature.

List of relevant H phrases: none

The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics. Sirmax takes no responsibility for inappropriate use, processing and handling by purchasers and users of the product.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

ANNEX: Alphabetical list of materials to whom this document is applicable

160092	ISONYL A 6 30 GF L BK1051	160155	ISONYL A 6 GF30 ST1 HS NA	160133	ISONYL A 6 UV GR2067
160043	ISONYL A 6 38 NA	160026	ISONYL A 6 GF30 ST1 NA	160097	ISONYL A 6 WT2004
160076	ISONYL A 6 B F NATURALE	160028	ISONYL A 6 GF30 ST2 NA	160151	ISONYL A 6 WT2122
160066	ISONYL A 6 BK	160071	ISONYL A 6 GF30 ST2 UV RD1047	180035	ISONYL A 66 6 GF15 ST BK
160012	ISONYL A 6 GF10 ST UV NA	160041	ISONYL A 6 GF30 ST2 UV GR1068	180020	ISONYL A 66 6 GF15 ST NA
160131	ISONYL A 6 GF10 UV NA	160104	ISONYL A 6 GF30 ST2 UV GR1092	180062	ISONYL A 66 B F NAT1
160111	ISONYL A 6 GF15 AF UV BK	160019	ISONYL A 6 GF30 ST2 UV NA	180028	ISONYL A 66 B F NATURALE
160150	ISONYL A 6 GF15 BK	160116	ISONYL A 6 GF30 ST2 UV OR1046	180014	ISONYL A 66 BE0802
160058	ISONYL A 6 GF15 HS STZ BK	160140	ISONYL A 6 GF30 ST2 UV OR2015	180070	ISONYL A 66 GF10 NA
160038	ISONYL A 6 GF15 NA	160033	ISONYL A 6 GF30 WT0865	180025	ISONYL A 66 GF15 NA
160069	ISONYL A 6 GF15 ST NA	160128	ISONYL A 6 GF30 WT1000	180067	ISONYL A 66 GF15 ST NA
160122	ISONYL A 6 GF15 ST2 NA	160087	ISONYL A 6 GF30 YL2008	180004	ISONYL A 66 GF20 NA
160108	ISONYL A 6 GF15 UV NA	160134	ISONYL A 6 GF35 HS UV GR2068	180043	ISONYL A 66 GF20 NA1
160055	ISONYL A 6 GF20 L BK	160141	ISONYL A 6 GF35 NA	180016	ISONYL A 66 GF20 ST WT0974
160106	ISONYL A 6 GF20 L NA	160084	ISONYL A 6 GF40 L NA	180042	ISONYL A 66 GF20 UV NA
160112	ISONYL A 6 GF20 L UV BK1079	160123	ISONYL A 6 GF50 BK	180036	ISONYL A 66 GF20 UV RD1047
160103	ISONYL A 6 GF20 NA	160085	ISONYL A 6 GF50 L NA	180018	ISONYL A 66 GF20 WT0974
160051	ISONYL A 6 GF20 UV NA	160030	ISONYL A 6 GF50 NA	180071	ISONYL A 66 GF25 NA
160149	ISONYL A 6 GF20 UV YL2106	160096	ISONYL A 6 GF50 NA1	180030	ISONYL A 66 GF30 BK
160154	ISONYL A 6 GF20CA25 BK	160127	ISONYL A 6 GF50 UV BK	180068	ISONYL A 66 GF30 HR NA
160075	ISONYL A 6 GF25 BK	160049	ISONYL A 6 GF50 UV GR1068	180066	ISONYL A 66 GF30 HS BK
160089	ISONYL A 6 GF25 NA	160057	ISONYL A 6 GF50 UV NA	180010	ISONYL A 66 GF30 NA
160050	ISONYL A 6 GF30 AF BK	160046	ISONYL A 6 GF50 UV RD1047	180063	ISONYL A 66 GF30 ST2 NA
160079	ISONYL A 6 GF30 BE0675	160119	ISONYL A 6 GF50 WT2042	180041	ISONYL A 66 GF35 F NA
160054	ISONYL A 6 GF30 BK	160136	ISONYL A 6 GFC30 ST1 GR2073	180060	ISONYL A 66 GF35 GR1052
160040	ISONYL A 6 GF30 BK1	160148	ISONYL A 6 GFC40 BK	180037	ISONYL A 66 GF35 HS BK
160061	ISONYL A 6 GF30 BN0962	160114	ISONYL A 6 GFC40 NA	180038	ISONYL A 66 GF35 HS NA
160067	ISONYL A 6 GF30 FG NA	160110	ISONYL A 6 GFC45 UV NA	180072	ISONYL A 66 GF35 NA
160068	ISONYL A 6 GF30 GR0315	160138	ISONYL A 6 GFH15 HS STZ NA	180032	ISONYL A 66 GF50 GR2047
160126	ISONYL A 6 GF30 GR0998	160147	ISONYL A 6 GFS30 HS BK	180002	ISONYL A 66 GF50 H BK
160036	ISONYL A 6 GF30 GR1061	160115	ISONYL A 6 GFS33 NA	180046	ISONYL A 66 GF50 HS BK
160132	ISONYL A 6 GF30 GR2043	160121	ISONYL A 6 GFS33 NA1	180058	ISONYL A 66 GF50 HS NA
160011	ISONYL A 6 GF30 HS BK	160083	ISONYL A 6 GR1010	180009	ISONYL A 66 GF50 NA
160152	ISONYL A 6 GF30 HS BK1	160088	ISONYL A 6 GS15 NA	180040	ISONYL A 66 GF50 NA1
160153	ISONYL A 6 GF30 HS NA	160130	ISONYL A 6 GS15 ST BK0979	180048	ISONYL A 66 GFC15 GR2025
160077	ISONYL A 6 GF30 L BK	160146	ISONYL A 6 GS30 BL2090	1B0026	ISONYL A 66 GFS30 BK
160120	ISONYL A 6 GF30 L BK0979	160047	ISONYL A 6 GS30 HF BK	180052	ISONYL A 66 GFS50 NA
160035	ISONYL A 6 GF30 L NA	160017	ISONYL A 6 GS30 NA	1B0025	ISONYL A 66 GS40 NA
160081	ISONYL A 6 GF30 L UV GR1068	160023	ISONYL A 6 K NA	180069	ISONYL A 66 HS NA
160052	ISONYL A 6 GF30 L UV NA	160074	ISONYL A 6 L NATURALE	180059	ISONYL A 66 N BL0989
160070	ISONYL A 6 GF30 L UV RD1047	160007	ISONYL A 6 NA	180021	ISONYL A 66 N GR0988
160016	ISONYL A 6 GF30 NA	160098	ISONYL A 6 ST BK	180006	ISONYL A 66 N NA
160090	ISONYL A 6 GF30 ST1 BK	160124	ISONYL A 6 ST1 NA	180033	ISONYL A 66 NERO BLEND

180034	ISONYL A 66 SN ORO BLEND
180008	ISONYL A 66 ST1 NA
180051	ISONYL A 66 ST2 BK
180054	ISONYL A 66 ST2 HS BK
180050	ISONYL A 66 ST2 NA
180053	ISONYL A 66 ST3 NA
180019	ISONYL A 66 STZX NA
160144	ISONYL B 6 BK2
160021	ISONYL B 6 GF 30 BK
160045	ISONYL B 6 GF15 HS STZ BK
160009	ISONYL B 6 GF15 NA
160064	ISONYL B 6 GF20 NA
160005	ISONYL B 6 GF30 BK
160118	ISONYL B 6 GF30 GR2012
160135	ISONYL B 6 GF30 GR2072
160091	ISONYL B 6 GF30 HS BK
160044	ISONYL B 6 GF30 L NA
160001	ISONYL B 6 GF30 NA
160056	ISONYL B 6 GF33 GR0680
160010	ISONYL B 6 GF33 L N NA
160003	ISONYL B 6 GF33 NA
160004	ISONYL B 6 GF35 BK
160013	ISONYL B 6 GF35 NA
160060	ISONYL B 6 GF50 BK
160094	ISONYL B 6 GF50 H BK
160018	ISONYL B 6 GF50 NA
160107	ISONYL B 6 GR0305
160062	ISONYL B 6 GS30 BK
160080	ISONYL B 6 GS30 GR0306
160029	ISONYL B 6 GS30 N NA
160139	ISONYL B 6 GS40 N NA
160027	ISONYL B 6 NA
160037	ISONYL B 6 ST1 NA
160082	ISONYL B 6 ST1 UV GR1068
160063	ISONYL B 6 ST1 UV NA
160078	ISONYL B 6 ST1 UV RD1047
160042	ISONYL B 6 ST2 NA
160117	ISONYL B 6 ST3 BK
180031	ISONYL B 66 GF20 EL BK
180012	ISONYL B 66 GF30 BK
180007	ISONYL B 66 GF30 BK1
180011	ISONYL B 66 GF30 HS BK
180005	ISONYL B 66 GF30 NA
180022	ISONYL B 66 GF50 BK
180024	ISONYL B 66 GF50 BK1
180017	ISONYL B 66 GF50 NA
180045	ISONYL B 66 GS30 BK1
180055	ISONYL B 66 ST1 BK
180039	ISONYL B 66 ST2 BK
180013	ISONYL B 66 UV STZ NA
180047	ISONYL B66 GF50 HS BK
160024	ISONYL I 6 CA20 ST GR0884
160105	ISONYL I 6 GF 50 RH BK
160053	ISONYL I 6 GF15 RH BK
160109	ISONYL I 6 GF20 GR0652
160020	ISONYL I 6 GF30 FL RH BK
160015	ISONYL I 6 GF30 GR0315
160039	ISONYL I 6 GF30 L RH BK
160022	ISONYL I 6 GF30 RH BK
160102	ISONYL I 6 ST1 GR0601
160014	ISONYL I 6 ST1 NA
180049	ISONYL I 66 CA15 ST GR0884
180064	ISONYL I 66 CA15 ST GR2082
180023	ISONYL I 66 GF30 NA
180001	ISONYL I 66 GF30 RH BK
180061	ISONYL I 66 GF50 RH BK
180029	ISONYL I 66 ST NA