

according article 32 - 2006/1907 "REACH" and 1272/2008 "CLP"

The preparation mentioned in this document <u>does not legally require an SDS</u>. 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	ISOCLEAR (all grades)			
1.2) Use of the	The list of products that are covered by this safety information data sheet can be found in the			
preparation	appendix on the last page.			
preparation	USE: Synthetic polymer based on polycarbonate 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	SIRMAX SpA Registerd office: via Fabbrega 18 Isola Vicentina (VI)			
identification	Manufacturer:			
i de l'illieuron	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 - <u>mfabris@sirmax.it</u>			
1.4) Emergency	Quality Office: via dell'artigianato, 42 Cittadella PD, tel. 049 9441183			
telephone	Emergency: 112			
2) Hazards iden				
2.1) Classificati	1 1			
preparation	accordance with Regulation (EC) No 1272/2008.			
2.2) Label element	None required			
2.2.1. Labelling acc	rding to P281 Use personal protective equipment as required.			
Regulation (EC) No 1				
[CLP]	1 301 Dispose of contents/container in accordance with local regulation.			
2.2.2. Contains:				
2.2.3. Special provi	ions: 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.				
3.2) Mixtures	Preparation of the following components:			
	PC Polycarbonate			
	Disperse additives.			
	 Mineral filler and/or glass fiber only for the filled/reinforced grades. 			
	 Colourants and pigments, only for coloured versions. 			
	Colourants and pigments, only for coloured versions.			
4) First aid measures				
*	General measures: At room temperature the product is neither an irritant nor gives off			
measures	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			



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	medical help. Victim should rest in a warm place. If breathing is irregular or respiratory arrest				
	provide artificial respiration.				
4000	Ingestion: In case of doubt or if feeling unwell seek medical help.				
4.2) Symptoms		tact : none			
		act: Vapours and gases of the product, generated at high temperature can have an			
		fect to the eyes.			
		n: Vapours and gases of the product, generated at high temperature can have an			
	Ingestion	ffect to breathing apparatus.			
43) Indication of		liate medical attention and special treatment needed: none			
5) Fire fighting					
, ,					
5.1) Extinguishing	media	Suitable extinguishing media: Carbon dioxide. Dry chemical powder. Alcohol or			
		polymer foam.			
50) Smarial	hamanda	Unsuitable extinguishing media: -			
5.2) Special	hazards	In case of fire it can release: water (H2O), carbon dioxide (CO2), and when lacking			
arising from the m		oxygen (O2), carbon monoxide (CO). The products of the burning are dangerous.			
5.3) Advice for fire	engnters	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			
	7	137).			
6) Accidental re					
6.1) Personal pre		6.1.1. For non-emergency personnel - Protective equipment: Use personal protective			
protective equipm		equipment (Section 8).			
emergency proced	ures	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			
(A) E :	4.1	product			
,	onmental	Do not allow product to reach water/drains/sewage systems or permeable soil. If			
precautions		accidental entry into water or ground occurs,			
		inform responsible authorities.			
6.3) Methods and material		6.3.1. For containment: -			
for containment and		6.3.2. For cleaning up: Take up mechanically and collect in suitable container and dispose according to current regulations.			
cleaning up		6.3.3. Other information: -			
6.4) Reference 1	to other	See also sections 8 and 13.			
sections	o omei	See also sections 8 and 15.			
	d storage				
7) Handling and					
7.1) Precautions		otective measures			
for safe handling		s to prevent fire: Ensure adequate ventilation. Take precautionary measures against a risks, as all types of polymers may develop dust during transporting or grinding of			
		Take precautionary measures against static discharges. Ensure adequate equipment			
	granules.				
	_	g. s to prevent aerosol and dust generation: Prevent dusting.			
		s to protect the environment: -			
		vice on general occupational hygiene			
		al 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				
		cessing conditions. Experimental tests under different application conditions showed			
		n limits of formaldehyde, acrylaldehide, formic acid, and acetic acid being			
		ntly below TLV- values. Do not overpass the suggested process conditions			
1	(temperatures), since the released gases are dangerous.				
7.2) Conditions		chnical measures and storage conditions			
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for safe storage,	Keep in cool and well ventilated area. Keep in a dry place. Take precautionary measures			
including any	against static discharges. Ground equipment electrically. Electric safety equipment. Keep away			
incompatibilities	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	Recommendations: -			
use(s)	Industrial sector specific solutions: -			
8) Exposure controls and personal protection				

use(s) Industri	al sector specific solutions: -		
8) Exposure controls a	nd 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		
1	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: -		

6.2.3. 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:			
pН	Non applicable		
Softening point	140 °C		
Boiling point	Non applicable		
Flash point	Not applicable		
Explosion danger	Not explosive		
Oxidising properties:	None		



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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:	T			
Ignition temperature:	> 490 ° C			
Decomposition temperate				
10) Stability and rea	ctivity			
10.1. Reactivity	The product i	The product is stable at normal handling, storage and process conditions (require to		
	SIRMAX the	SIRMAX the process data guidelines). Decomposition begins at temperatures higher		
	than 350°C, w	with the release of decomposition gases and products.		
10.2. Chemical stability	Product is stal	ole under normal conditions according to handling and storage.		
10.3. Possibility of	-			
hazardous reactions				
10.4. Conditions to avoi	id The product is	s stable at normal handling, storage and process conditions.		
	Decomposition	n begins at temperatures higher than 300°C.		
10.5. Incompatible	Strong oxidiz	ing agents.		
materials				
10.6. Hazardous	In case of fire	/explosion vapours dangerous for health are spread.		
decomposition products				
11) Toxicological in	formation			
11.1. Information on		toxicity: No information		
toxicological effects		11.1.2. Skin corrosion/irritation, serious eye damage/irritation, aspiration hazard		
tomeorogram criterio		Additional information. The product is not classified as irritating to skin and eyes.		
		gases of the product, generated at high temperature can have an irritant		
		yes and the breathing apparatus.		
		ratory or skin sensitisation: Not classified as sensitizing.		
		ogenicity, Mutagenicity, Reproductive toxicity		
	Carcinogenici	ty: No information		
	(Germ cell) m	nutagenicity: No information		
	Reproductive	toxicity: No information		
	Summary of e	Summary of evaluation of the CMR properties: No information		
	11.1.5. STOT	single and repeated exposure: No information		
12) Ecological consi	iderations			
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 de	gradability	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 p	otential	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		No evaluation.		
assessment 12.6. Other adverse effects 12.7. Additional information				
		No 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 conside	erations			
13.1. Waste treatment	13 1 1 Droduct / Dr	ackaging disposal		
	3.1. Waste treatment nethods 13.1.1. Product / Packaging disposal Waste chemical: Disposal must be made according to official regulations: to leave it to			
methous				
authorized collector/remover/transformer of hazardous waste. Suitable for incineration in				



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



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

170051	ISOCLEAR A 0 0 GF40 NA	170034	ISOCLEAR B 20 60 N	NA .
170049	ISOCLEAR A 05 80 BN0021	170077	ISOCLEAR B 20 60 U	JV BK2116
170020	ISOCLEAR A 06 80 NATURALE 001	170013	ISOCLEAR B 20 60 U	JV GR0927
170011	ISOCLEAR A 06 80 UV NAT002	170060	ISOCLEAR B 20 60 U	JV GR1040
170035	ISOCLEAR A 10 10 GF40 NA	170072	ISOCLEAR B 20 60 U	JV WT2061
170069	ISOCLEAR A 10 40 YL0949	170005	ISOCLEAR B 25 40 G	GR0020
170027	ISOCLEAR A 10 60 FG NA 001	170008	ISOCLEAR B 25 40 G	GR0761
170031	ISOCLEAR A 10 60 WT0922	170032	ISOCLEAR B 25 40 V	VH0749
170029	ISOCLEAR A 10 70 OP	170043	ISOCLEAR B 25 50 U	JV GR0052
170039	ISOCLEAR A 10 70 YL2018	170006	ISOCLEAR B 30 40 B	вк
170067	ISOCLEAR A 15 15 GF15 GN0621	170002	ISOCLEAR B 30 40 G	GR0058
170052	ISOCLEAR A 15 15 GR0970	170042	ISOCLEAR B 30 40 V	VT0849
170070	ISOCLEAR A 20 40 GR0996	170028	ISOCLEAR B 40 10 G	GF20 GR0054
170079	ISOCLEAR A 20 500 RD2133	170021	ISOCLEAR B 5 10 GF	-20 BK
170016	ISOCLEAR A 20 60 FG NAT 001	170044	ISOCLEAR I 05 50 N	A
170048	ISOCLEAR A 20 60 UV NATURALE	170078	ISOCLEAR I 20 40 G	R0056
170066	ISOCLEAR A 20 60 UV AT WT1026	170038	ISOCLEAR I 20 50 G	R0057
170054	ISOCLEAR A 20 60 UV BL2021	170019	ISOCLEAR I 25 30 G	R0778
170063	ISOCLEAR A 20 60 UV BL2059	170001	ISOCLEAR I 30 40 G	R0058
170058	ISOCLEAR A 20 60 UV GR1027	170047	ISOCLEAR I 30 40 G	R0775
170014	ISOCLEAR A 20 60 UV NAT 001	170059	ISOCLEAR I 30 40 G	R2014
170010	ISOCLEAR A 20 60 UV NAT 002	170055	ISOCLEAR I 30 40 U	V GR0058
170026	ISOCLEAR A 20 60 UV WT0031			
170025	ISOCLEAR A 20 60 WT0033			
170061	ISOCLEAR A 25 40 WT1004			
170057	ISOCLEAR A 35 15 GR2034	170075	ISOCLEAR A 10	60 GF0 V0 GR0815
170068	ISOCLEAR B 10 40 NA	170045	ISOCLEAR A 10	60 GF10 V0 BK
170064	ISOCLEAR B 15 50 BN2043	170041	ISOCLEAR A 10	60 GF10 V0 BK2
170065	ISOCLEAR B 15 50 WT2044	170007	ISOCLEAR A 10	60 GF10 V0 GR0704
170073	ISOCLEAR B 20 15 GR2081	170053	ISOCLEAR A 10	60 GF10 V0 GR1097
170071	ISOCLEAR B 20 15 WT	170062	ISOCLEAR A 10	60 GF10 V0 WT0981
170030	ISOCLEAR B 20 40 BE0037	170056	ISOCLEAR A 10	0 80 V0 TP
170009	ISOCLEAR B 20 40 BK1	170022	ISOCLEAR A 20	40 V0 GR0815
170050	ISOCLEAR B 20 40 GF30 UV WT0038	170018	ISOCLEAR B 20	50 V0 WT0049
170003	ISOCLEAR B 20 40 GR0058	170012	ISOCLEAR I 10	80 GF10 V0 BK
170076	ISOCLEAR B 20 40 GR1201	170036	ISOCLEAR I 10	80 GF10 V0 UV GR0055
170017	ISOCLEAR B 20 40 OP			
170004	ISOCLEAR B 20 40 RH BK			
170023	ISOCLEAR B 20 40 RH BK1			
170046	ISOCLEAR B 20 40 UV WT0041			
170037	ISOCLEAR B 20 40 UV WT0660			
170015	ISOCLEAR B 20 40 WT0849			
170074	ISOCLEAR B 20 50 GR0702			
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