

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	f the preparation and manufacturer	
1.1) Identification		
of the preparation	ISORYL	
1.2) Use of the	The list of products that are covered by this safety information	on data sheet can be found in 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 .	
preparation	USE: Synthetic polymer based on polyphenylenether with	dispersed fillers, additives and
	colourants, used only in the industrial activities of injection n	
	Sector of use: SU 12 Manufacture of plastics products	
	conversion.	, , , , , , , , , , , , , , , , , , , ,
	Product category: PC 32 Polymer preparations and compound	ls.
	Process category: PROC 14 Production of preparations or art	icles by tabletting, compression,
	extrusion, pelletisation.	
	Uses advised against: No other uses are known or allowed for	
1.3) Company	SIRMAX SpA Registerd office: via Fabbrega 18 Isola Vic	entina (VI)
identification	Manufacturer:	
	• SIRMAX SpA - via Dell'Artigianato, 42 Cittadella (
	• SIRMAX SpA - Via Decime, 10 Tombolo (PD) - IT	
	• Sirmax Polska Sp. z o.o ul. Holenderska 8, 99-300	
	Safety data sheet emission: Quality Office: via Dell'Artigiana	to, 42 Cittadella PD, tel. o.h.
	049 9441111 - fax 049 9441112 - <u>mfabris@sirmax.it</u>	0.1.1.1.0.0
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	classification as hazardous in
preparation	accordance with Regulation (EC) No 1272/2008.	
2.2) Label element	None required	
2.2.1. Labelling acc	ling to P281 Use personal protective equipment as required	
Regulation (EC) No		
[CLP]	1 301 Dispose of contents/container in accordance w	ttii iocai 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 b	
	to leakage/spillage of product Possible production of	5 5
	used. The working steams can irritate the eyes as we	ll as the respiratory tract.
	ata on components	
3.1) Substances		
(for mixtures see 3.		
3.2) Mixtures	Preparation of the following components:	
	PPO-PPE Polyphenylenether	
	Disperse additives.	6:11 1/ : 6 1 1
	Mineral filler and/or glass fiber only for the	
	Colourants and pigments, only for coloured	versions.
1) E: 1		
4) First aid mea		
4.1) First-aid	eneral measures : At room temperature the product is neither a	
measures	azardous vapours. The measures listed below apply to critical	situations (Fire, incorrect
	rocess conditions). kin contact: After contact with molten product, cool rapidly v	with cold water. Do not attampt
	remove molten product from skin because skin will tear easi	
	rofessional medical help!	17. Immediately Obtain
	ye contact: Immediately flush eyes with running water for at	least 15 minutes, keeping
	yelids open. If irritation persist, seek professional medical atte	
	halation: Remove patient to fresh air-move out of dangerous	



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

	T	
		elp. Victim should rest in a warm place. If breathing is irregular or respiratory arrest
	provide artificial respiration.	
400		: In case of doubt or if feeling unwell seek medical help.
4.2) Symptoms	Skin cont	
		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 fect to breathing apparatus.
	Ingestion	
13) 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) G 11	, ,	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	efighters	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
	1	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) F :		product
	onmental	Do not allow product to reach water/drains/sewage systems or permeable soil. If
precautions		accidental entry into water or ground occurs,
(2) M-4b-11		inform responsible authorities.
6.3) Methods and		6.3.1. For containment: -
for containmen	it 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	to other	See also sections 8 and 15.
7) Handling and	d storage	
7.1) Precautions		
		tective measures
for safe handling		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 prevent derosor 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		chnical measures and storage conditions
	1	Ç



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

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 con	ntrols and nersonal protection	

use(s)	Industrial	l sector specific solutions: -	
8) Exposure con	ntrols and	d personal protection	
8.1) Control parar	neters	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 con	trols	8.2.1. Appropriate engineering control	
o.2) Exposure con		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:	
pН	Non applicable
Softening point	225-270 °C
Boiling point	Non applicable
Flash point	Not applicable
Explosion danger	Not explosive
Oxidising properties:	None



SAFETY INFORMATION DATA SHEET according article 32 - 2006/1907 "REACH" and 1272/2008 "CLP"

		3
Density at 23°C:	from 0,90 to 1	
Solubility:		water, soluble or partially soluble in boiling, aromatic chlorinated
	solvents	
Vapour pressure	Negligible	
9.3) Further data:		
Ignition temperature:	> 490 ° C	
Decomposition temperat		
10) Stability and rea	ctivity	
10.1. Reactivity	The product i	s stable at normal handling, storage and process conditions (require to
	SIRMAX the	process data guidelines). Decomposition begins at temperatures higher
	than 350°C, w	rith the release of decomposition gases and products.
10.2. Chemical stability	Product is stal	ble 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.
	Decompositio	n begins at temperatures higher than 300°C.
10.5. Incompatible	Strong oxidizi	ng 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		orrosion/irritation, serious eye damage/irritation, aspiration hazard
tomeological effects		Formation. 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.
		atory or skin sensitisation: Not classified as sensitizing.
		ogenicity, Mutagenicity, Reproductive toxicity
		ty: No information
		utagenicity: No information
		toxicity: No information
		valuation of the CMR properties: No information
		-single and repeated exposure: No information
12) Ecological const	iderations	
12.1. Toxicity	<u></u>	12.1.1. Acute (short-term) toxicity: No information
12/17/10/11/17		12.1.2. Chronic (long-term) toxicity: No information
12.2. Persistence and de	egradability	12.2. Persistence and degradability
12/2/ 1 01818/01100 4110 41		12.2.1. Abiotic degradation, physical- and photo-chemical
		elimination: No information
		12.2.2. Biodegradation: No information
12.3. Bioaccumulative p	ootential	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 an	d vPvB	No evaluation.
assessment	•	
12.6. Other adverse effects		No information
12.7. Additional information		The product is not toxic, but small particles can have physical
12.7. Additional inform		effects in acquatic and soil organisms. Not biodegradable. No
12.7. Additional inform		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
12.7. Additional inform		bioaccumulation potential. Prevent contamination.
	prations	bioaccumulation potential. Prevent contamination.
12.7. Additional inform 13) Disposal consider	erations	bioaccumulation potential. Prevent contamination.
13) Disposal conside		
13) Disposal consideration 13.1. Waste treatment	13.1.1. Product / Pa	ackaging disposal
13) Disposal conside	13.1.1. Product / Pa Waste chemical: Da	



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

approved i	ncinerators or appropriate, authorized disposal plants.
Packaging:	Completely emptied container dispose according to regulations.
13.1.2. Wa	ste treatment-relevant information: -
13.1.3. Sev	wage disposal-relevant information: -
	ner 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-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.



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

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

190027	ISORYL A 011 BK1089
190028	ISORYL A 011 BL1090
190026	ISORYL A 011 GR1088
190032	ISORYL A 011 NA
190002	ISORYL A 120 T20 V1 A GR607
190009	ISORYL A 137 BK
190015	ISORYL A 137 GR0360
190033	ISORYL A 137 GR0361
190014	ISORYL A 137 WT0363
190021	ISORYL A 160 NA
190013	ISORYL A 20 10 GF30 W BK
190012	ISORYL A 20 10 GF30 W NA
190031	ISORYL A 20 70 GF10 V1 GR2123
190004	ISORYL A 20 90 GF20 W BK
190011	ISORYL A 20 90 GF20 W NA
190006	ISORYL A 20 95 GF 25 W BK
190023	ISORYL A 2010 GF30 NA
190020	ISORYL A 209 GF20 GR0364
190024	ISORYL A 209 GF20 NA
190007	ISORYL B 208 GF20 BK
190010	ISORYL I 207 GF30 GR0368