

Section 1. Identification of the substance/preparation and of the company/undertaking

1.1. Identification of the substance/preparation

Product name

ISOFIL, ISOPLEN (only flame retardant and industrial grades)

1.2. Use of the substance/preparation

Use

The list of products that are covered by this safety data sheet can be found in the appendix on the last page.

USE: Synthetic polymer based on polypropylene with dispersed fillers, additives and colourants, used only in the industrial activities of injection moulding 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 tableting, compression, extrusion, pelletisation.

Uses advised against

No other uses are known or allowed for this product.

1.3. Company/undertaking identification

Manufacturer

- Sirmax spa - via Dell'Artigianato, 42 Cittadella (PD), IT
- Sirmax spa -Via Decime, 10 Tombolo (PD), IT
- Sirmax Polska Sp. z o.o. 99-300 Kutno - ul. Holenderska 8 – PL

e-mail: mfabris@sirmax.it

1.4. Emergency telephone

Emergency

112

Supplier

+39 (0)49 944 11 11

Section 2. Hazards identification

2.1. Classification of substance/preparation:

SAFETY DATA SHEET ***according article 31- 2006/1907 “REACH” and 1272/2008 “CLP”***

Classification according to Reg. 1272/2008

Carc. 2; H351 Suspected of causing cancer.

2.2. Label elements :

2.2.1. Symbol letter(s):



Signal word: **Warning**

H351	Suspected of causing cancer.
EUH208	Contains 2-(2-Hydroxy-5-methylphenyl)benzotriazole. May produce an allergic reaction.
P201	Obtain special instructions before use.
P281	Use personal protective equipment as required.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local regulation.

2.2.2. Contains:

antimony trioxide

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 charging when used
The working steams can irritate the eyes as well as the respiratory tract.

Section 3. Composition/information on ingredients

Product description

Polypropene (CAS 9003-07-0) and/or poly(propene-ethene) (CAS 9010-79-1).
Additives (stabilizers, antioxidants, flame-retardant, other).
Mineral fillers such as calcium carbonate and/or talc.

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according article 31- 2006/1907 “REACH” and 1272/2008 “CLP”

Glass fibre.
 Colourants and pigments, (only for coloured versions).

3.1. Substances

For mixtures see 3.2.

3.2. Mixtures

Chemical name	CAS, EC, Index	%	Classification according to Regulation (EC) No 1272/2008 [CLP]	REACH reg. number
Zinc borate	1332-07-6 215-566-6 -	<4	Aquatic Acute 1; H400	-
antimony trioxide	1309-64-4 215-175-0 051-005-00-X	<4	Carc. 2; H351	-
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	52829-07-9 258-207-9 -	<0,3	Eye Irrit. 2; H319 Aquatic Chronic 2; H411	-
2-(2-Hydroxy-5-methylphenyl)benzotriazole	2440-22-4 - -	<0,3	Skin Sens. 1; H317 Aquatic Chronic 4; H413	-

Section 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

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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

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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

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4.3. Indication of any immediate medical attention and special treatment needed

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Section 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Alcohol or polymer foam.

Unsuitable extinguishing media

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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can generate; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO₂). Water The formation of hydrocarbons and aldehydes are possible in the initial stages of a fire (especially in between 400°C and 700°C). Dangerous compounds of bromine, antimony, boron, zinc and phosphorous can be released

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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) .

Section 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

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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

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6.4. Reference to other sections

SAFETY DATA SHEET ***according article 31- 2006/1907 “REACH” and 1272/2008 “CLP”***

See also sections 8 and 13.

Section 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

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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, acrylaldehyde, 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 for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

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

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7.2.4. Storage class

SAFETY DATA SHEET according article 31- 2006/1907 “REACH” and 1272/2008 “CLP”

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7.2.5. Further information on storage conditions

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7.3. Specific end use(s)

Recommendations

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Industrial sector specific solutions

Section 8. Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational Exposure limit values

Chemical name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m3 (ppm)	mg/m3	ml/m3 (ppm)	mg/m3		
Product	0,1	0,23	0,3	0,7	acrylaldehyde (CAS 107-02-8)	
Product	2	2,5	2	2,5	formaldehyde (CAS 50-00-0)	
Product	5	9,6			Formic acid (CAS 64-18-6)	

Exposure limit values (IUCLID)

No information

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

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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

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8.2.3. Environmental exposure controls

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Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

- Physical state: solid; granules

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- Colour: according to specification
- Odour: None

Important health, safety and environmental information

-	pH	No information
-	Melting point	145 – 170 °C
-	Boiling point/boiling range	No information
-	Flashpoint	No information
-	Evaporation rate	No information
-	Ignition temperature	No information
-	Explosion limits (vol%)	No information
-	Vapour pressure	No information
-	Vapour density	No information
-	Density	Density: 0,9 – 1,6 g/cm ³ at 23 °C
-	Solubility	Water: Insoluble
-	Partition coefficient n-octanol/water (log Kow)	No information
-	Auto-ignition temperature	> 400 °C
-	Decomposition temperature	> 300 °C
-	Viscosity	No information
-	Explosive properties	Product is not explosive.
-	Oxidising properties	No information

9.2. Other information

-	Remarks:	Soluble in boiling, aromatic chlorinated solvents.
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Section 10. STABILITY AND REACTIVITY

10.1. Reactivity

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10.2. Chemical stability

Product is stable under normal conditions according to handling and storage.

10.3. Possibility of hazardous reactions

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10.4. Conditions to avoid

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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.

Section 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

Additional information

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

Section 12. Ecological information

12.1. Toxicity

12.1.1. Acute (short-term) toxicity

Acute toxicity of ingredients (IUCLID)

No information

12.1.2. Chronic (long-term) toxicity

No information

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

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12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Other adverse effects

No information

12.7. Additional information

For product

The product is not toxic, but small particles can have physical effects in aquatic and soil organisms.
Not biodegradable.
No bioaccumulation potential
Floats on water.
Prevent contamination.

Section 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

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13.1.3. Sewage disposal-relevant information

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13.1.4. Other disposal recommendations

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Section 14. Transport information

14.1. UN number

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14.2. UN proper shipping name

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Not dangerous according to transport regulations.

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

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Section 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 substance/mixture by the supplier.

Section 16. Other information

Indication of changes

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Key literature references and sources for data

MSDS, ISOFIL (only flame retardant grades), SIRMAX S.p.A., date of issue/revision: 02.01.2012

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according article 31- 2006/1907 “REACH” and 1272/2008 “CLP”

List of relevant H phrases

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.

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

140317	ISOFIL H 10 TM X V2 BK	140347	ISOFIL HK 20 T V2 NA1
140497	ISOFIL H 10 TP F UV V2 BK	140342	ISOFIL HK 40 TP V FR V2 NA
140494	ISOFIL H 10 TP F UV V2 NA	140570	ISOFIL HK 40 TP V UV FR V2 NA
140269	ISOFIL H 10 TP X UV V2 NA	140343	ISOFIL HK 5 T V0 BK
140588	ISOFIL H 10 TP X V2 BK	140147	ISOFIL HK 5 T V0 GR0705
140503	ISOFIL H 15 TP F UV V2 BK	140139	ISOFIL HK 5 T V0 GR0907
140500	ISOFIL H 15 TP F UV V2 NA	140124	ISOFIL HK 5 T V0 NA2
140685	ISOFIL H 20 TP X HS GW750 BK	140365	ISOFIL HK 5 T V0 NA3
140796	ISOFIL H 20 TP X HS GW750 NA	140555	ISOFIL I H 20 TG F HS BK
140579	ISOFIL H 20 TP Z GW750 BK	140744	ISOFIL I H 20 TG V BK
140578	ISOFIL HK 20 T V0 GR1064	140227	ISOFIL I HK 30 TG X BK1
140641	ISOFIL HK 20 T V0 HS GR1099	140262	ISOFIL I HK 35 CV X BK
140225	ISOFIL HK 20 T V0 HS NA	140407	ISOFIL I HK 40 CV F BK
140681	ISOFIL HK 20 T V0 HS WT2076	140059	ISOFIL K 10 TP F UV V2 GR0702
140031	ISOFIL HK 20 T V0 NA	140271	ISOFIL K 10 TP F V2 NA
140488	ISOFIL HK 20 T V0 NA1	140226	ISOFIL K 20 TP F V2 GR0239
140714	ISOFIL HK 20 T V0 WT2087	140339	ISOFIL K 20 TP H V2 GR0239
140109	ISOFIL HK 20 T V2 NA		